CASSETTE RECEIVER

KRC-657R/RL
KRC-757C/R/RL/W
SERVICE MANUAL

KENWOOD

KENW - 04622

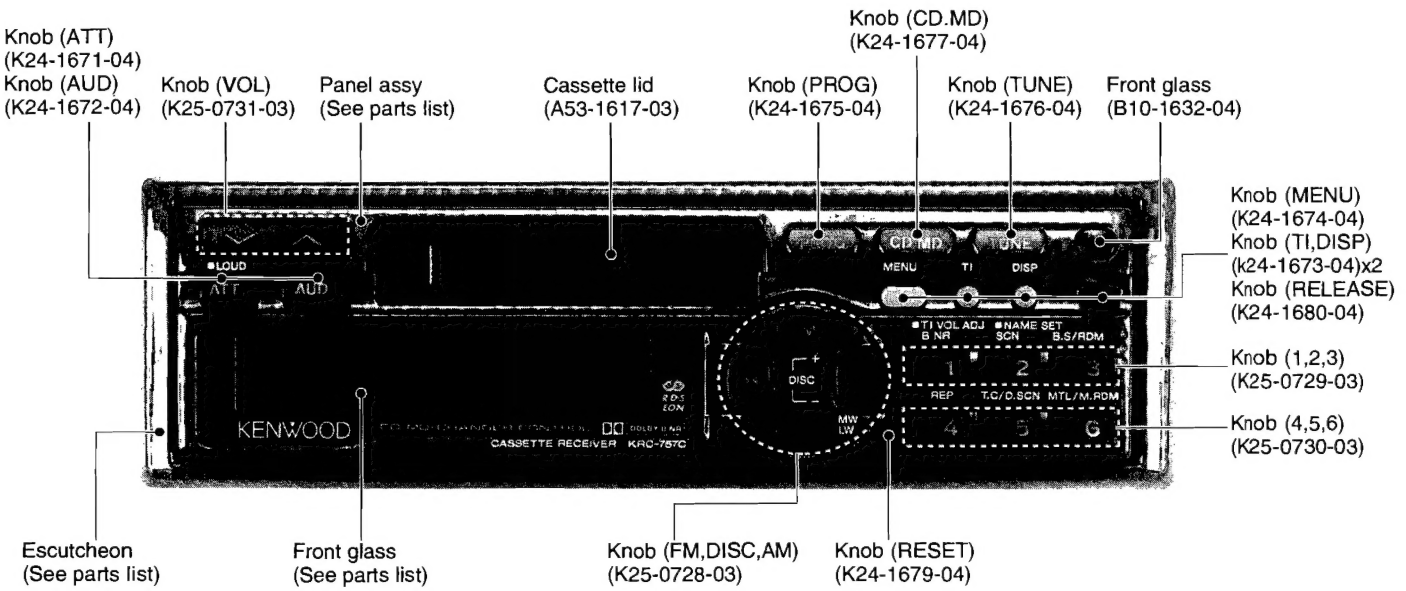
B51-7013-00 (K) 2271

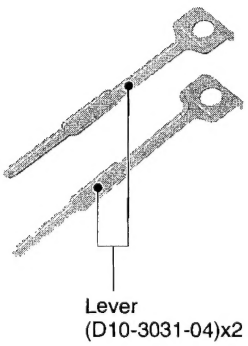
Please see service manual KRC-956R/RL (B51-6844-00), if you need to refer the cassette mechanism operation description.

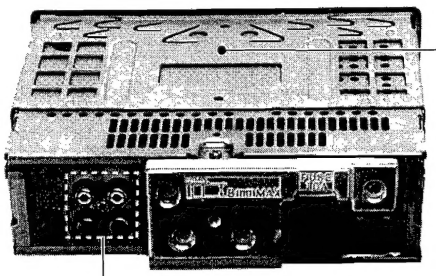
+4428 2123/3/3

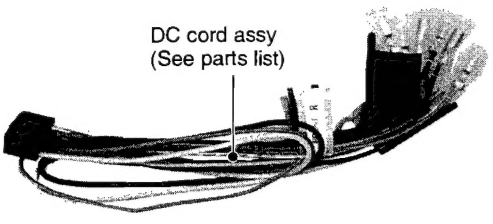
Cassette mechanism extension cord for service
W05-0477-00 (7P)
W05-0478-00 (12P)

Photo is KRC-757C.









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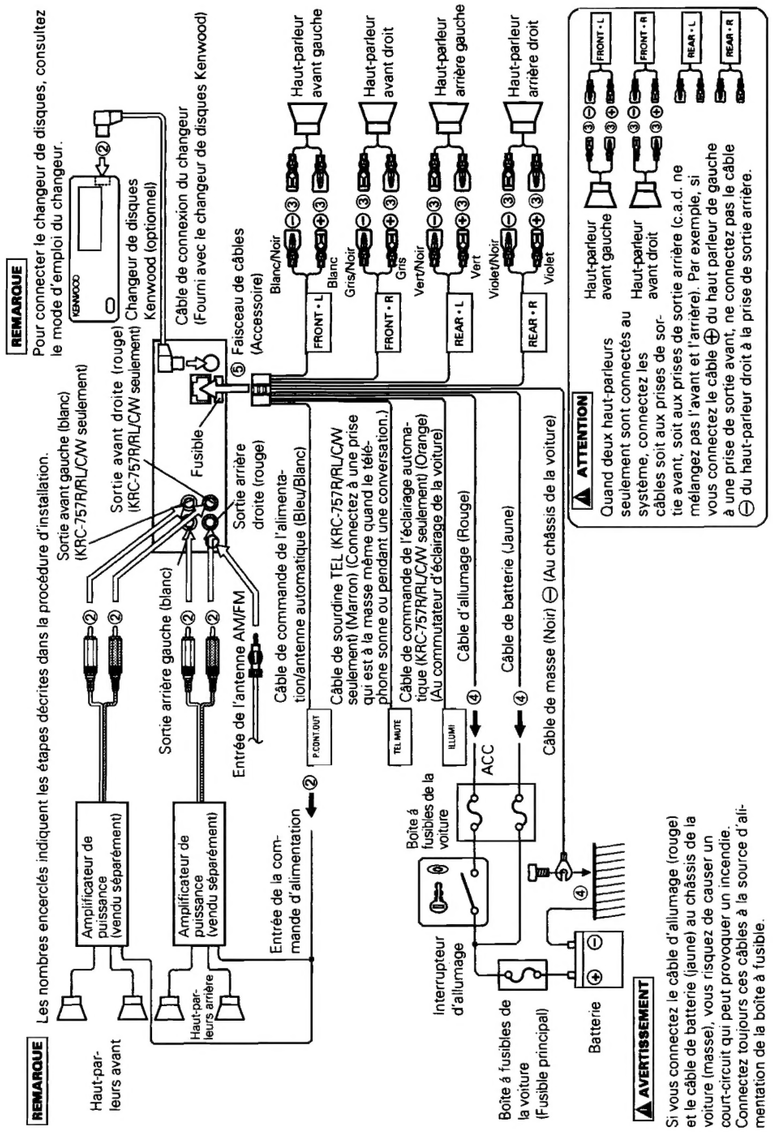
CONNECTING CABLE TO TERMINALS



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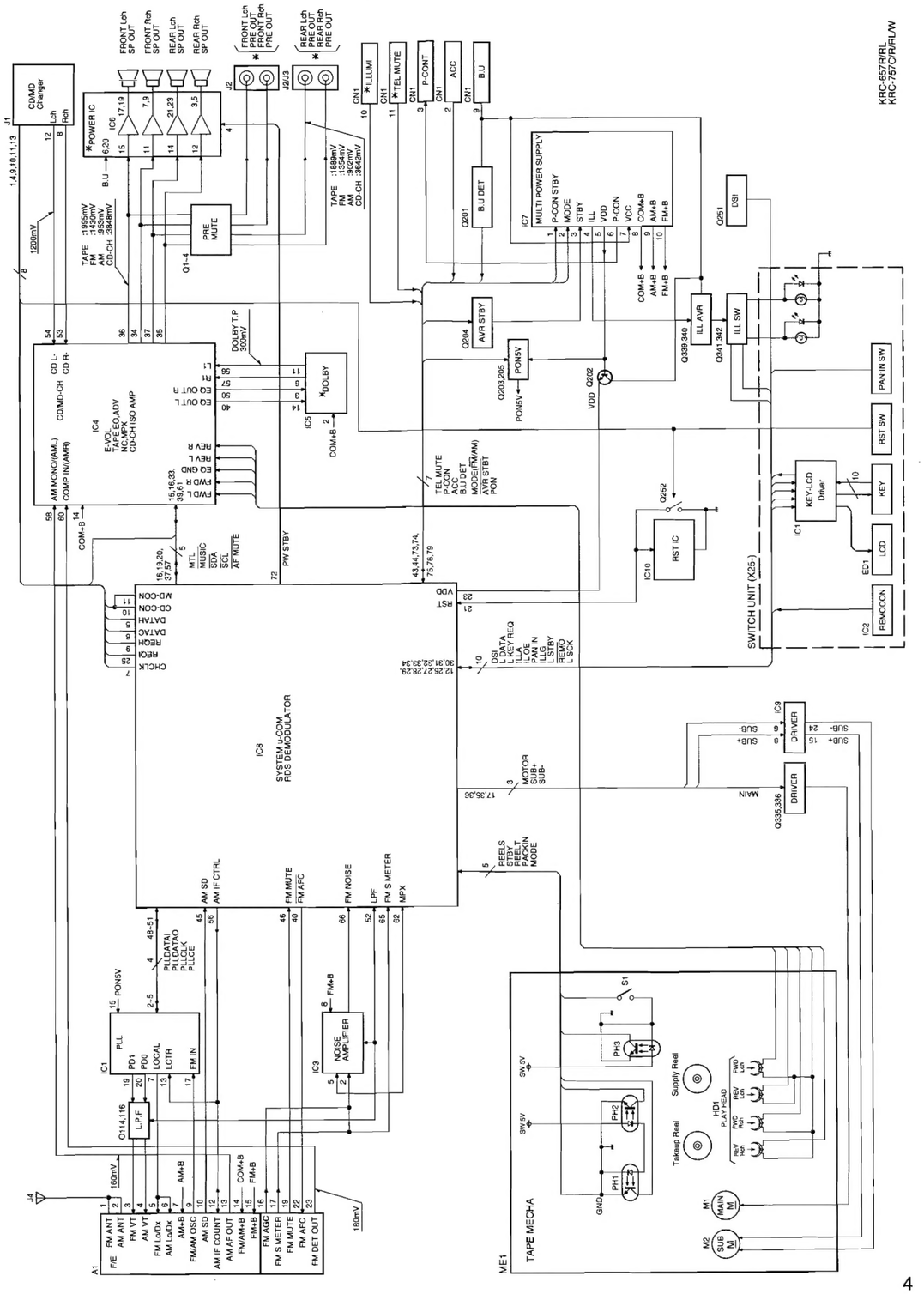
BLOCK DIAGRAM



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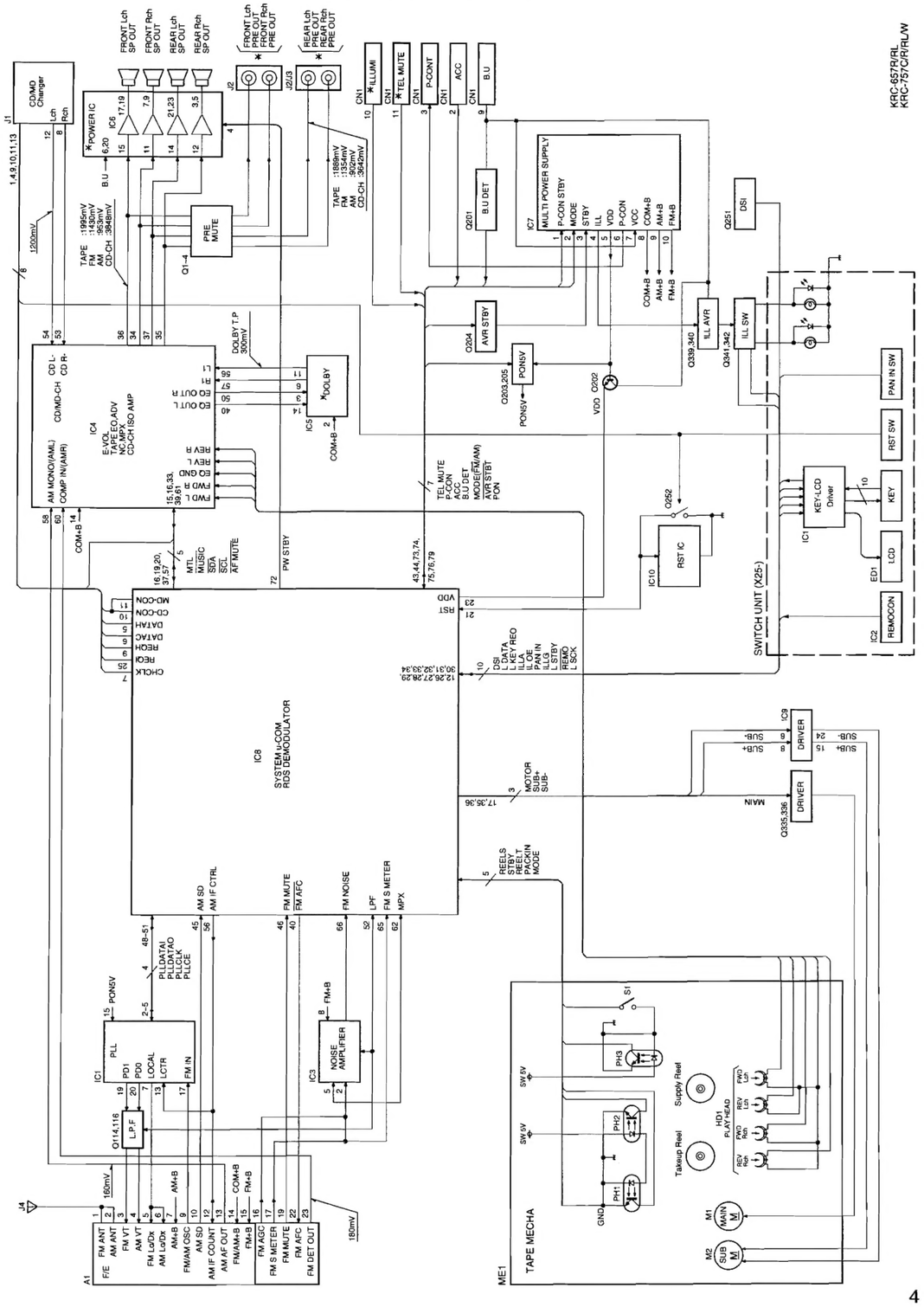
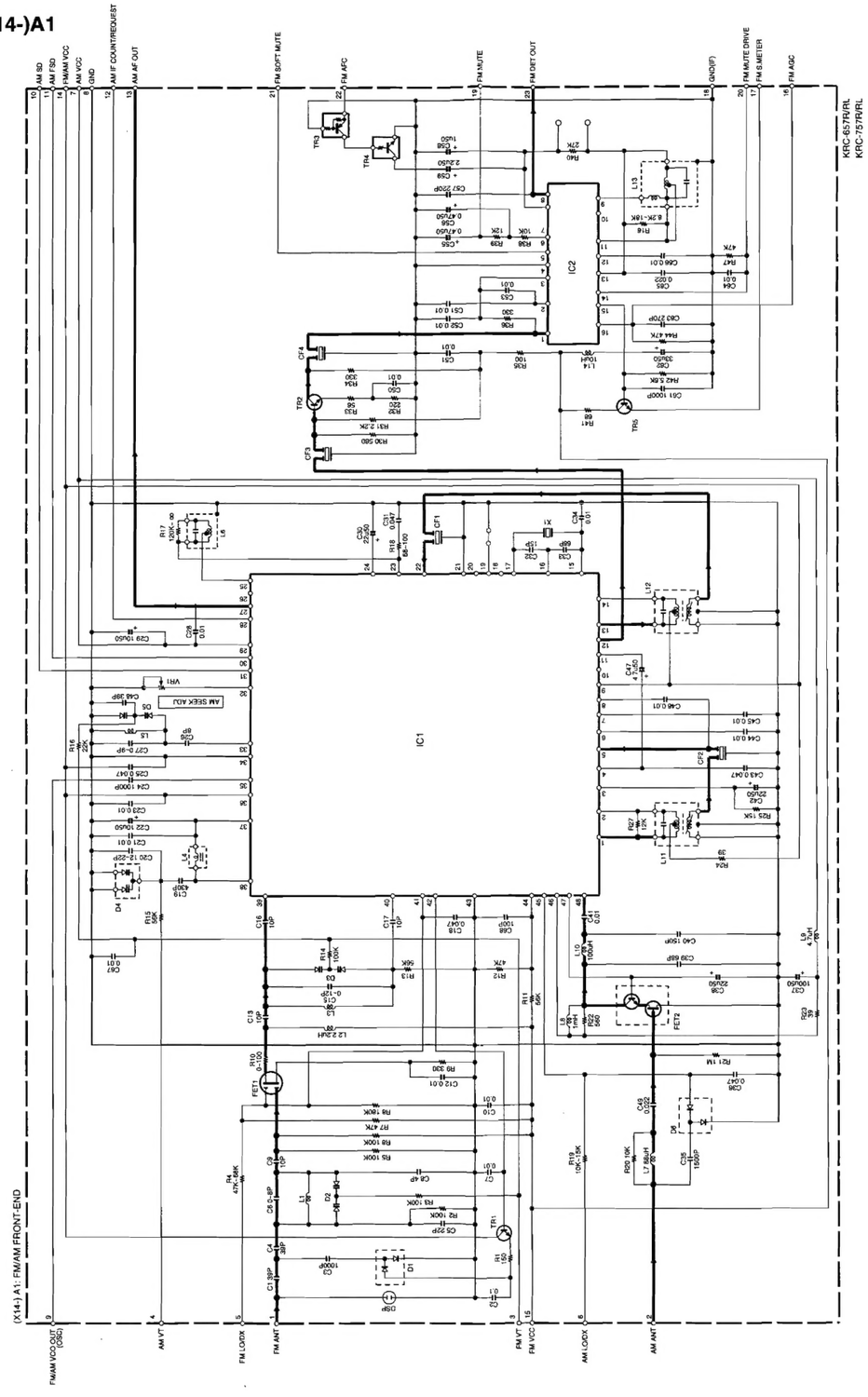


FM/AM FRONT-END SCHEMATIC



COMPONENTS DESCRIPTION

SYNTHESIZER UNIT(X14-5372-7X)

Ref. No.	Use and Function	Operation and Control
IC1	PLL IC	
IC2	ANALOG SW	
IC3	NOISE AMPLIFIER	
IC4	ELECTRONIC VOLUME	EQ. Amp/Electronic vol./N.C. MPX/CD-CH ISO/DPSS/ METAL /BASS /TRE
IC5	DOLBY IC	
IC6	POWER AMPLIFIER	
IC7	MULTI POWER SUPPLY	
IC8	MASTER μ -COM	
IC9	SUB MOTOR DRIVE	
IC10	RESET IC	
Q1-4	PRE MUTE SW	Goes ON when Q256 goes ON.
Q101	FM LOCAL SW	Goes ON when IC1 pin (7) goes ON. ON : FM local seek is turned ON.
Q102-104	FM MUTE TIME CONSTANT SW	When AFC is " H", Q102 goes ON, Q103 goes OFF and Q104 goes ON.
Q105,106	SCHMITT CIRCUIT	Provide the hysteresis characteristic.
Q107	INVERTER BUFFER	Inverts the Schmitt circuit output. (Conversion from 8 V to 5 V)
Q108	IMPEDANCE CONVERTER	
Q109	HALF-WAVE RECTIFIER	
Q110,111	NOSE DETECT OUTPUT TIME CONSTANT SW	When μ-COM pin 52 goes "H", Q110 goes ON then Q111 goes ON.
Q112	CONSTANT CURRENT SUPPLY FOR LPF	Goes ON when Power IC pin 10 goes ON.
Q113	LPF TIME CONSTANT SW	Goes ON when μ-COM pin 52 goes "H".
Q114	FM LPF	
Q116	AM LPF	
Q117	IMPEDANCE CONVERTER	
Q161	CRSC SW	Goes ON when IC4 pin 24 goes "H". (ON : Mono)
Q162	IC4 MUTE SW	Goes ON when Q257 or Q255 goes ON.
Q163	METAL SW	Goes ON when μ-COM pin 37 goes "H".(MTL ON)
Q164	PAN 5V SW	Goes ON when PAN SW LINE goes "L".
Q201	B-U DETECT	Goes ON when B.U. drops to about 8.9 V or less.
Q202	VDD (B.U. 5V) DRIVER	Goes ON when Power IC pin 5 goes ON.
Q203,205	PON 5V SW	When μ-COM pin 75 goes "H", Q203 goes ON then 0205 goes ON.
Q204	AVR STBY SW	Goes ON when μ-COM pin 74 goes "H".
Q206	POWER DOWN DETECT MUTE SW	Goes ON when Q201 goes OFF in case of power down.

COMPONENTS DESCRIPTION

SYNTHESIZER UNIT(X14-5372-7X)

Ref. No.	Use and Function	Operation and Control
Q231	ILLUMI SW	Goes ON when ILLUMI LINE of CN1 goes "H".(ON : LCD negative display)
Q232	TEL MUTE SW	Goes ON when TEL MUTE LINE of CN1goes "L".
Q235,236	CH-CON 2 SW	When μ-COM pin 11 goes "H", Q235 goes ON then Q236 goes ON.
Q251	DSI SW	Goes ON when μ-COM pin 28 goes "H".
Q252	RESET SW	Goes ON when the RESET switch on the panel is turned ON.
Q253	RESET MUTE SW	Goes ON when the RESET switch on the panel is turned ON.
Q254	CH-MUTE SW	Goes ON when CD-CH MUTE goes "H".
Q255	MUTE SW	Goes ON when μ-COM pin 58 goes "L".
Q256	PRE MUTE SW	Goes ON when Q206 or Q253 goes ON.
Q257	IC4 MUTE SW	When μ-COM pin 57 goes "L", goes ON to turn Q162 ON.
Q258	BEEP SW	Goes ON when μ-COM pin 80 goes "H".
Q259,260	TEST MODE SW	When μ-COM pin 77 goes "H", Q259 goes ON then Q260 goes ON.
Q331,332	SUB-MOTOR POWER SW	When Q205 goes ON, Q331 goes ON then Q332 goes ON.
Q333,334	SUB-MOTOR POWER SUPPLY	When Q332 goes ON, Q333 and Q334 go ON.(With excessive voltage protection)
Q335	MOTOR DRIVE SW	Goes ON when μ-COM pin 17 goes "H".
Q336	MAIN MOTOR DRIVE	Goes ON when Q335 goes ON.
Q337,338	ILLUM +B POWER	Goes ON when Power IC pin 3 goes ON.
Q339,340	ILLUM GREEN SW	When μ-COM pin 26 goes "H", Q339 goes ON then Q340 goes ON.
Q341,342	ILLUM AMBER SW	When μ-COM pin 27 goes "H", Q341 goes ON then Q342 goes ON.

(X14-

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COMPONENTS DESCRIPTION

SYNTHESIZER UNIT(X14-5372-7X)

Ref. No.	Use and Function	Operation and Control
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Q333,334	SUB-MOTOR POWER SUPPLY	When Q332 goes ON, Q333 and Q334 go ON.(With excessive voltage protection)
Q335	MOTOR DRIVE SW	Goes ON when μ-COM pin 17 goes "H".
Q336	MAIN MOTOR DRIVE	Goes ON when Q335 goes ON.
Q337,338	ILLUM +B POWER	Goes ON when Power IC pin 3 goes ON.
Q339,340	ILLUM GREEN SW	When μ-COM pin 26 goes "H", Q339 goes ON then Q340 goes ON.
Q341,342	ILLUM AMBER SW	When μ-COM pin 27 goes "H", Q341 goes ON then Q342 goes ON.

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CIRCUIT DESCRIPTION

(X14-)IC8 : MICRO COMPUTER

No.	PIN NAME	I/O	FUNCTION	PORT LOGIC	POWER OFF
1	GNDP	–	Output buffer GND.		
2	VDDP	–	Output buffer power supply.		
3	OSCOUT	O	Oscillator output.		
4	OSCIN	I	Oscillator input.		
5	DATAH	O	5-line communication - data, head unit.		L
6	DATAC	I	5-line communication - data, disc-CH.		
7	$\overline{\text{CHCLK}}$	I	5-line communication - clock, disc-CH.	Active "L"	
8	GND	I	GND		
9	$\overline{\text{REQH}}$	O	5-line communication - request, head unit.	Active"L"	H
10	CHCON1	O	Disc-CH 1.	Active "H"	L
11	CHCON2	O	Disc-CH 2.	Active "H"	L
12	$\overline{\text{REMO}}$	I	Remote control input.	Active "L"	
13	PACKIN	I	Tape pack IN.		
14	–	O	Not used.		
15	T-STBY	I	Tape - standby.		
16	$\overline{\text{MUSIC}}$	I	Tape - music.	Active "L"	
17	MOTOR	O	Tape - main motor.	Active "H"	L
18	DOLBY	O	Tape - Dolby.	Active "H"	L
19	$\overline{\text{SCL}}$	O	I2C bus - clock.	Active "L"	OPEN
20	$\overline{\text{SDA}}$	I/O	I2C bus - data.	Active "L"	OPEN
21	$\overline{\text{RESET}}$	I	Hardware reset.	Active "L"	
22	VPP	I	u-COM test mode (fixed at "L" in normal operation).		
23	VDD	I	Full logic circuit power.		
24	GND	I	Full logic circuit GND.		
25	REQC	I	5-line communication - request, disc-CH.		
26	ILLG	O	Illumination - green.	Active "H"	L
27	ILLA	O	Illumination - amber.	Active "H"	L
28	DSI	O	DSI.	Active "H"	
29	L OE	O	LCD driver - all segment enable.	Active "H"	
30	L STB	O	LCD driver - strobe.		
31	L SCK	O	LCD driver - clock.		
32	L DATA	I/O	LCD driver - data.		
33	L KEYREQ	I	LCD driver - key request.		
34	$\overline{\text{PANIN}}$	I	Panel inserted.	Active "L"	
35	SUB+	O	Tape - sub-motor (+)		L
36	SUB-	O	Tape - sub-motor (-)		L
37	MTL	O	Tape - metal.	Active "H"	L
38	(KICK)	O	Not used.		
39	NC	O	Not used.		
40	$\overline{\text{AFC}}$	O	Tuner - FM AFC.	Active "L"	L

CIRCUIT DESCRIPTION

(X14-)IC8 : MICRO COMPUTER

No.	PIN NAME	I/O	FUNCTION	PORT LOGIC	POWER OFF
41	GNDP	I	Output buffer GND.		
42	VDDP	I	Output buffer power.		
43	ACC	I	Acc	1.27V (TH)	
44	BUP	I	Open (because of built-in pull-up resistor)	3.0V (TH)	
45	AMSD	I	Tuner - AM SD.		
46	FMMUTE	I	Tuner - FM band muting.	Active "L"	
47	–	O	Not used.		
48	P DI	I	PLL IC - data input.		
49	P DO	O	PLL IC - data output.		L
50	P CL	O	PLL IC - clock.		L
51	P CE	O	PLL IC - chip enable.		L
52	LPF	O	Tuner - FM LPF	Active "L"	L
53	PNSW1	I/O	H : KRC-757. L : KRC-657.		L
54	PNSW2	I/O	H : KRC-X57R. L : KRC-X57RL.		L
55	(PANT)	O	Not used.		
56	IF CTRL	O	Tuner - AM IF control.	Active "L"	L
57	AMMUTE	O	Tuner - FM AF high-speed muting.	Active "L"	L
58	MUTE	O	Muting.	Active "L"	L
59	RDSCOMP	O	RDS COMP output.		
60	RDSFIL	O	RDS filter output.		
61	RDSREF	I	RDS reference input.		
62	MPX	I	RDS input signal.		
63	VDDA	I	Analog power.		
64	GNDA	I	Analog GND.		
65	SMETER	I	Tuner - FM S meter.		
66	NOISE	I	Tuner - FM noise.		
67	–	O	Not used.		L
68	T MODE	I	Tape - mode.		
69	REEL T	I	Tape - reel, take up.		
70	REEL S	I	Tape - reel, supply.		
71	BUP	I	Back-up .	Active "L"	
72	PW STBY	O	Power IC standby.		L
73	FM/AM	O	Tuner - FM/Am selection.		L
74	AVR STBY	O	AVR stand-by.	Active "L"	L
75	PON	O	Power ON 5 V.		L
76	PCON	O	Power control.		L
77	TEST	O	Test mode ON.		L
78	SMALL	I	Small.	Active "L"	
79	PHONE	I	Phone interface.		
80	BEEP	O	Beep	Active "L"	L

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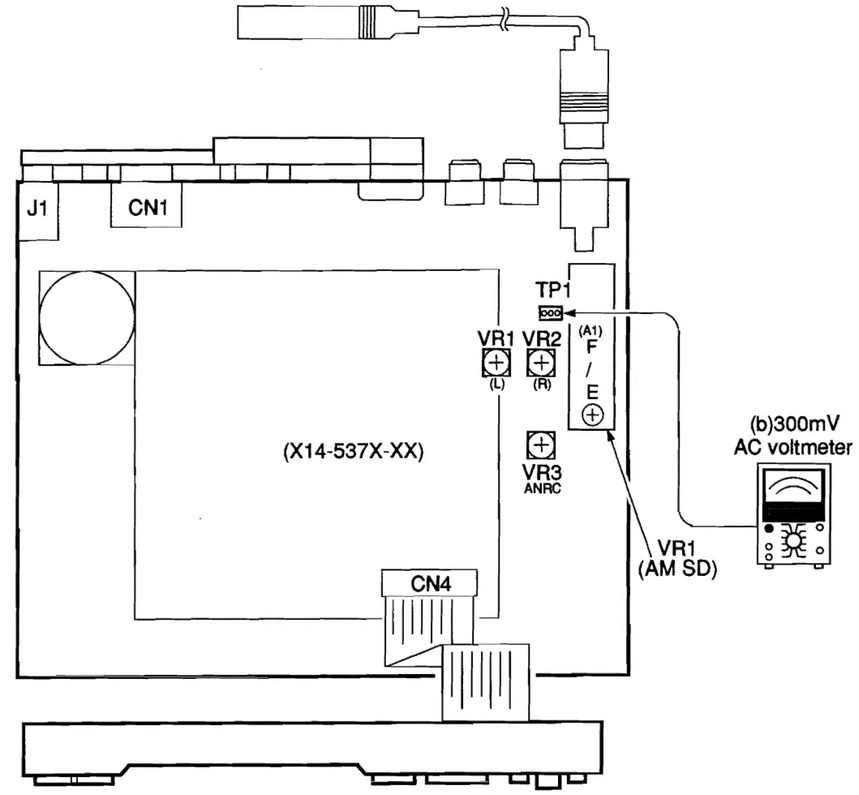
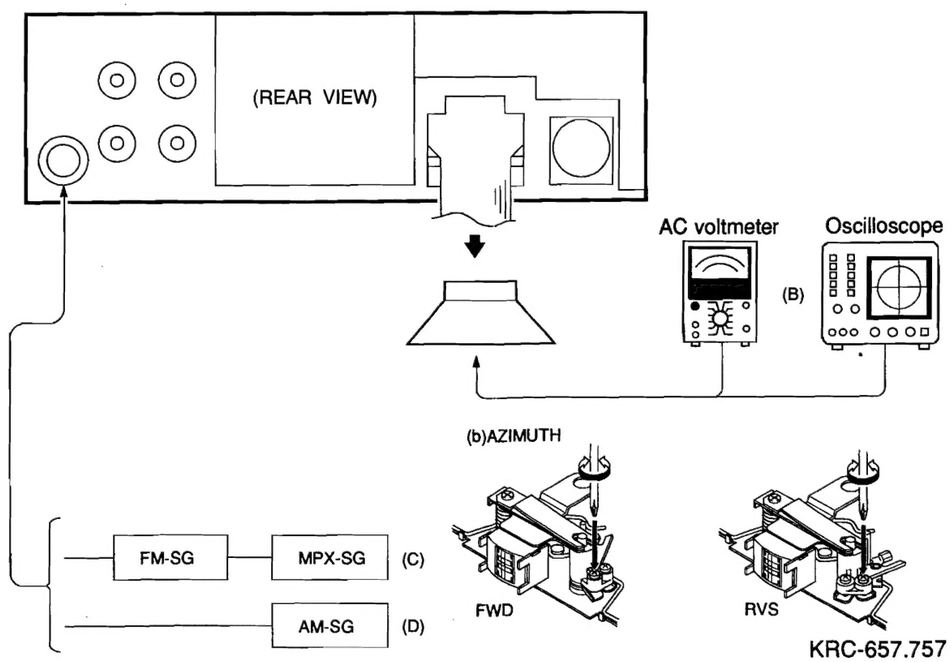
ADJUSTMENT





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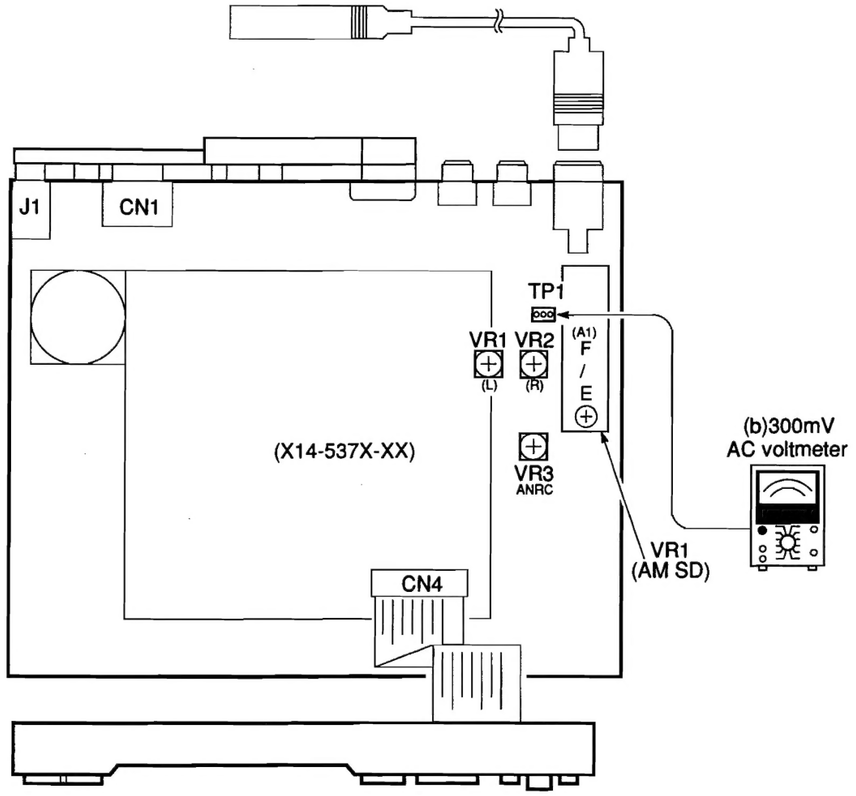
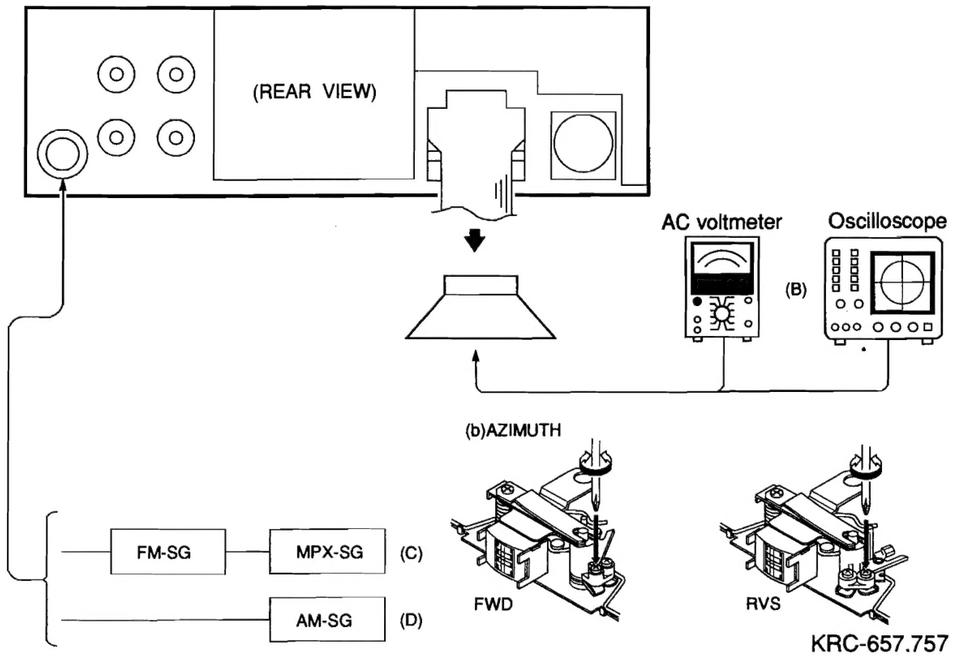
ADJUSTMENT





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ADJUSTMENT

Set the controls and switches as follows,

BALANCE	: center position	LOUD	: OFF	LOCAL	: OFF
FADER	: center position	T.ADV	: OFF	AUTO	: OFF
BASS	: center position	METAL	: OFF		
TREBLE	: center position	DOLBY NR.	: OFF		

No.	ITEM	INPUT SETTINGS	OUTPUT SETTINGS	TUNER (RECEIVER) SETTINGS	ALIGNMENT POINTS	ALIGN FOR	FIG.
FM SECTION							
1	ANRC	(C) 98.1 MHz 1KHz, ±40kHz dev Pilot: ±6.0kHz dev Selector : L or R 35dBu(ANT input)	(B)	FM98.1MHz	VR3 (ANRC) (X14-)	Separation 10dB	
CASSETTE DECK SECTION							
1	AZIMUTH	MTT-114 10kHz	(B)	TAPE PLAY	Head Azimuth Screw	Adjust the azimuth for each L ch/ R ch or FWD/RVS becomes maximum.	(b)
2	PLAY BACK LEVEL	MTT-150	Connect an AC voltmeter to TP1. (X14-)	TAPE PLAY	VR1(L) VR2(R) (X14-)	300mV	(c)

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EINSTELLUNGEN

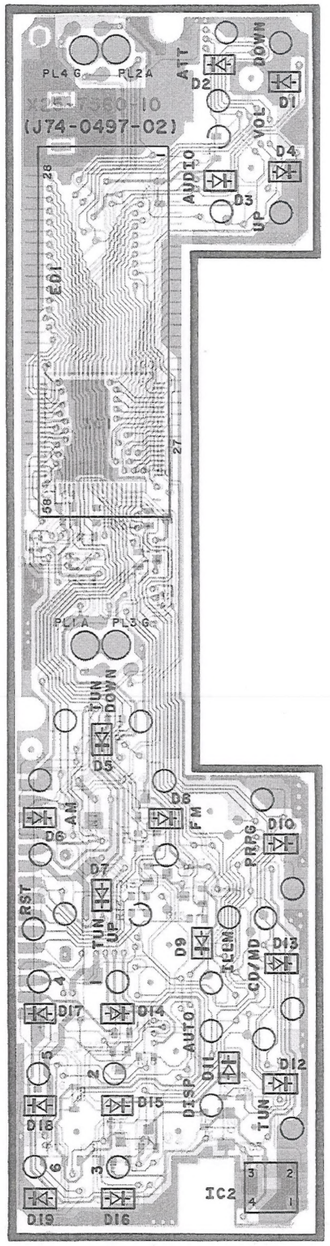
Die Bedienungselemente und Schalter wie folgt einstellen :

BALANCE : Mittelposition LOUD : OFF(AUS) LOCAL : OFF
FADER : Mittelposition T.ADV : OFF AUTO : OFF
BASS : Mittelposition METAL : OFF
TREBLE :Mittelposition DOLBY NR. : OFF

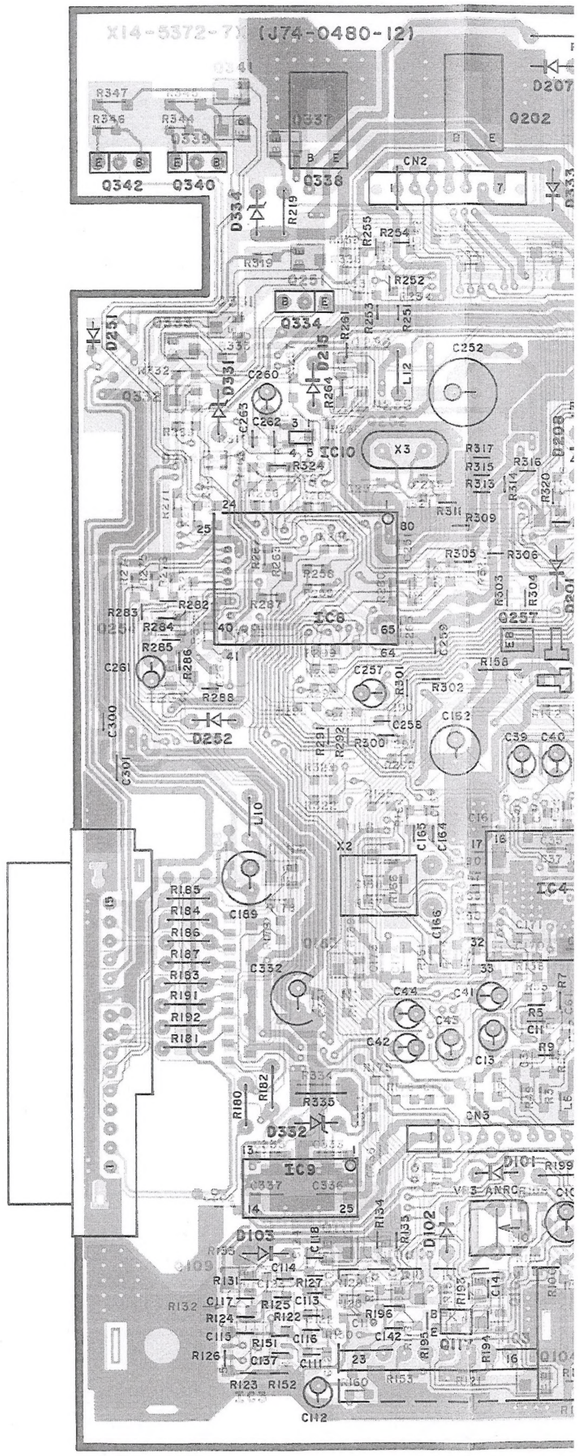
Nr.	POSITION	EINGANG SEINSTELLUNGEN	AUSGANGSEIN STELLUNGEN	TUNER-EINSTELLUNGEN (EMPFANGER)	AUSRICHT PUNKTE	AUSRICHTEN AUF	ABBILD UNG
UKW-BEREICH							
1	ANRC	(C) 98.1 MHz 1 KHz, ±40kHz Abweichung Pilot : ±6.0kHz Abweichung Wahlschalter : L oder R 35dBu (ANT-Eingang)	(B)	UKW 98.1MHz	VR3 (ANRC) (X14-)	Trennung 10dB	
KASSETTENDECK-BEREICH							
1	AZIMUT (AZIMUTH)	MTT-114 10kHz	(B)	KASSETTENWIED ERGABE (TAFE PLAY)	Kopf-Azimutschra ube	Den Azimut fuer Kanal L/Kanal R oder FWD/ RVS(Vorwaerts /rueckwaerts) auf den Maximalwert einstellen.	(b)
2	WIEDERGA BEPEGEL (PLAY BACK LEVEL)	MTT-150	Ein Wechselstrom-Voltmeter an TP1 (X14) anschliessen.	KASSETTENWIED ERGABE	VR1(L) VR2(R) (X14-)	300mV	(c)

PC BOARD (Component side view)

SWITCH UNIT (X25-756X-XX)
0-10:757R/RL/C/W, 0-11:657R/RL

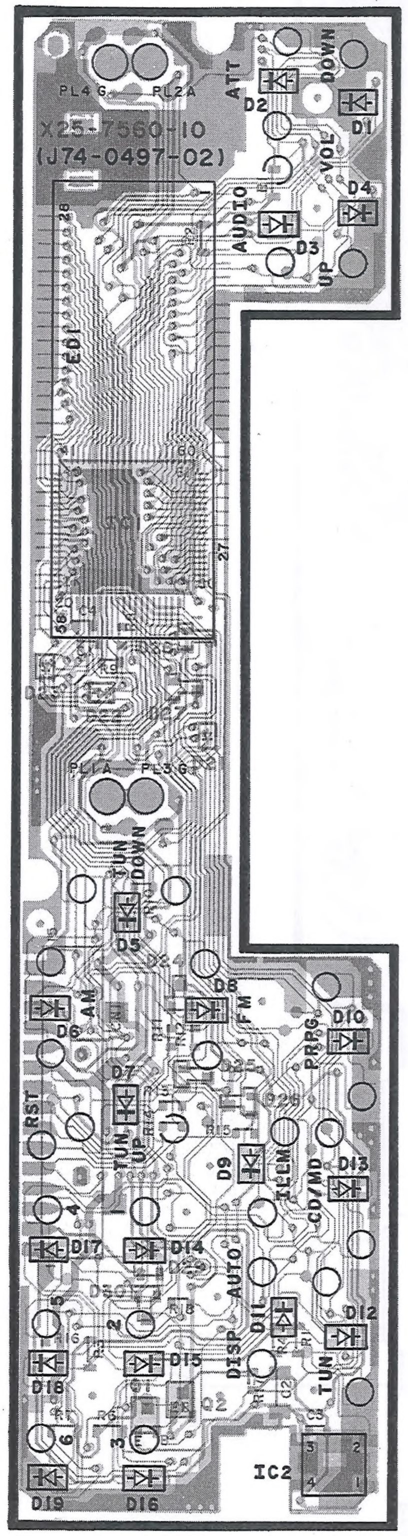


SYNTHESIZER UNIT (X14-537X-XX) 2-70:757R,
2-73:657R,

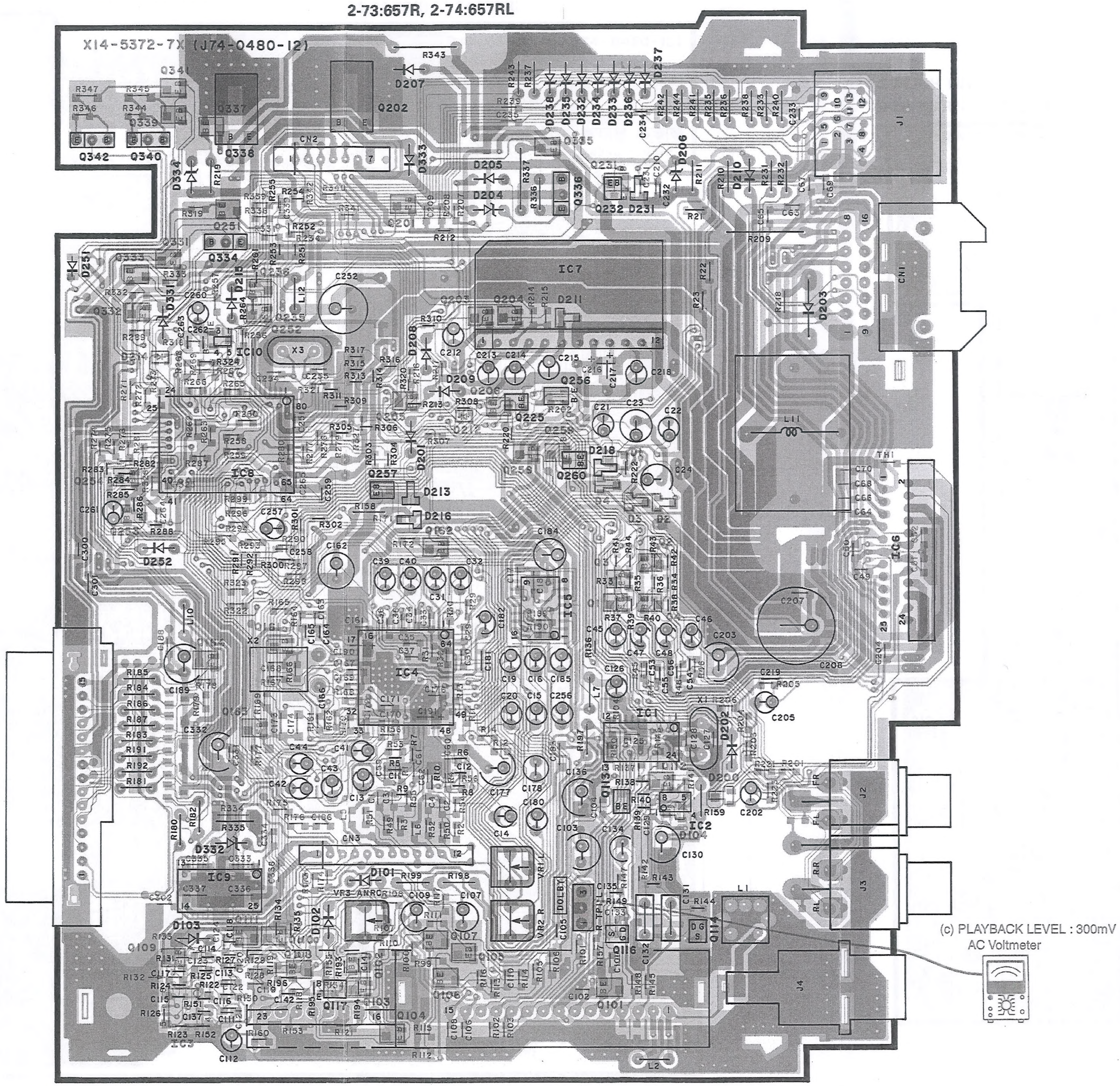


PC BOARD (Component side view)

SWITCH UNIT (X25-756X-XX)
0-10:757R/RL/C/W, 0-11:657R/RL



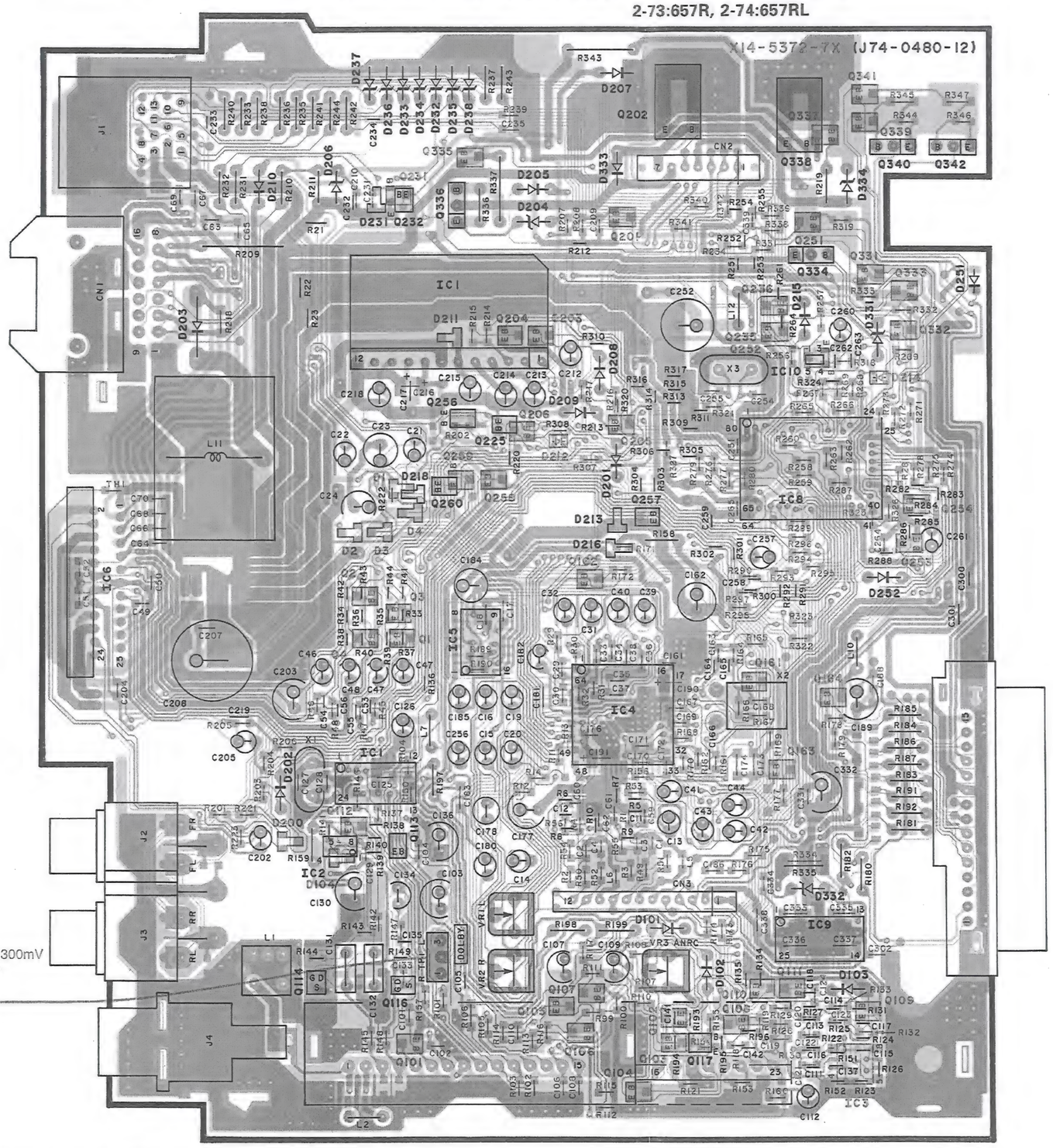
SYNTHESIZER UNIT (X14-537X-XX) 2-70:757R, 2-71:757C/RL/W,
2-73:657R, 2-74:657RL



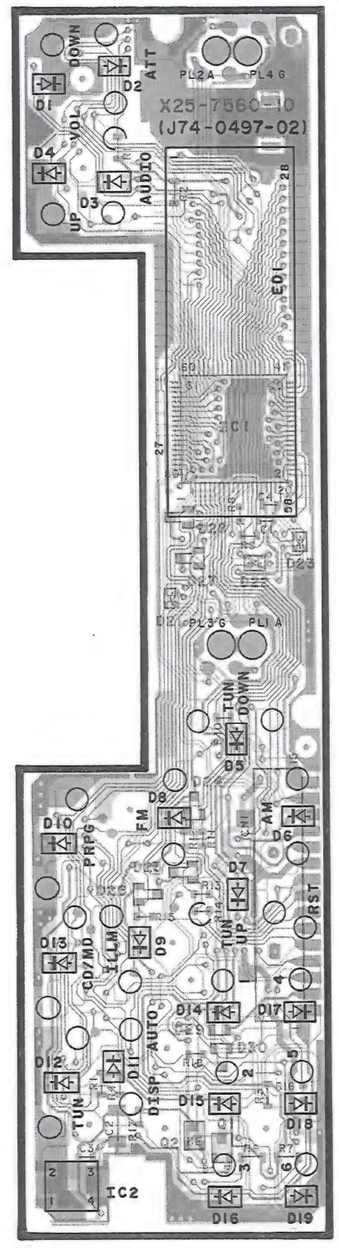
Refer to the schematic diagram for the values of resistors and capacitors.

PC BOARD (Foil side view)

SYNTHESIZER UNIT (X14-537X-XX) 2-70:757R, 2-71:757C/RL/W,
2-73:657R, 2-74:657RL

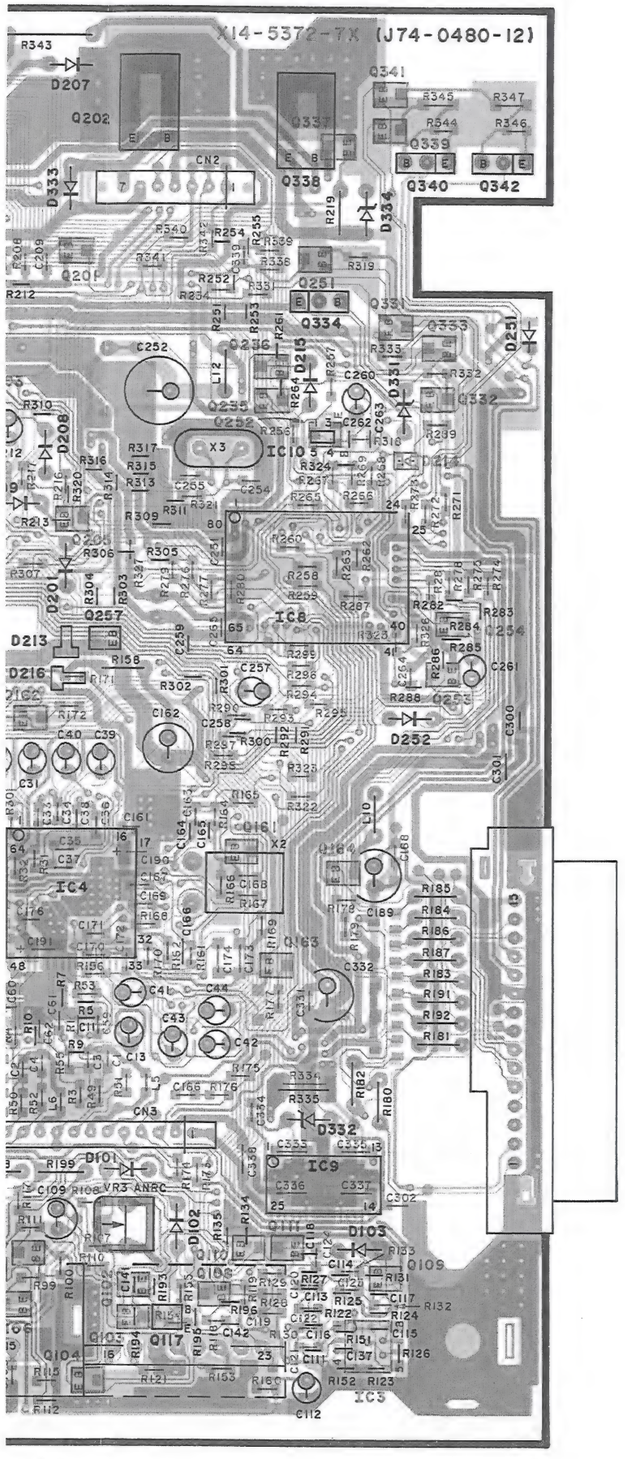


SWITCH UNIT (X25-756X-XX)
0-10:757R/RL/C/W, 0-11:657R/RL

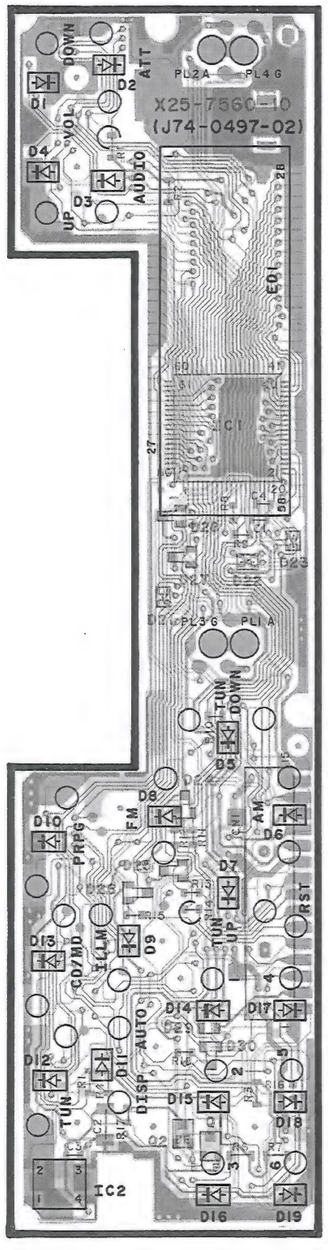


Refer to the schematic diagram for the values of resistors and capacitors.

'X-XX) 2-70:757R, 2-71:757C/RL/W,
2-73:657R, 2-74:657RL



SWITCH UNIT (X25-756X-XX)
0-10:757R/RL/C/W, 0-11:657R/RL

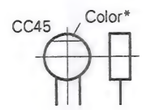


PARTS DESCRIPTIONS

CAPACITORS

CC 45 TH 1H 220 J
1 2 3 4 5 6

1 = Type ... ceramic, electrolytic, etc.
2 = Shape ... round, square, ect.
3 = Temp. coefficient
4 = Voltage rating
5 = Value
6 = Tolerance



• Capacitor value

010 = 1pF
100 = 10pF
101 = 100pF
102 = 1000pF = 0.001µF
103 = 0.01µF

2 2 0 = 22pF
Multiplier
2nd number
1st number

• Temperature coefficient

1st Word	C	L	P	R	S	T	U
Color*	Black	Red	Orange	Yellow	Green	Blue	Violet
ppm/°C	0	–80	–150	–220	–330	–470	–750

2nd Word	G	H	J	K	L
ppm/°C	±30	±60	±120	±250	±500

Example : CC45TH = –470 ± 60ppm/°C

• Tolerance (More than 10pF)

Code	C	D	G	J	K	M	X	Z	P	No code
(%)	±0.25	±0.5	±2	±5	±10	±20	+40 –20	+80 -20	+100 –0	More than 10µF – 10 ~ +50 Less than 4.7µF –10 ~ +75

(Less than 10pF)

Code	B	C	D	F	G
(pF)	±0.1	±0.25	±0.5	±1	±2

• Voltage rating

1st word \ 2nd word	A	B	C	D	E	F	G	H	J	K	V
0	1.0	1.25	1.6	2.0	2.5	3.15	4.0	5.0	6.3	8.0	–
1	10	12.5	16	20	25	31.5	40	50	63	80	35
2	100	125	160	200	250	315	400	500	630	800	–
3	1000	1250	1600	2000	2500	3150	4000	5000	6300	8000	–

• Chip capacitors

(EX) C C 7 3 F S L 1 H 0 0 0 J
1 2 3 4 5 6 7
(Chip) (CH, RH, UJ, SL)

Refer to the table above.
1 = Type
2 = Shape
3 = Dimension
4 = Temp. coefficient
5 = Voltage rating
6 = Value
7 = Tolerance

(EX) C K 7 3 F F 1 H 0 0 0 Z
1 2 3 4 5 6 7
(Chip) (B, F)

Dimension (Chip capacitors)

Dimension code	L	W	T
Empty	5.6 ± 0.5	5.0 ± 0.5	Less than 2.0
A	4.5 ± 0.5	3.2 ± 0.4	Less than 2.0
B	4.5 ± 0.5	2.0 ± 0.3	Less than 2.0
C	4.5 ± 0.5	1.25 ± 0.2	Less than 1.25
D	3.2 ± 0.4	2.5 ± 0.3	Less than 1.5
E	3.2 ± 0.2	1.6 ± 0.2	Less than 1.25
F	2.0 ± 0.3	1.25 ± 0.2	Less than 1.25
G	1.6 ± 0.2	0.8 ± 0.2	Less than 1.0

RESISTORS

• Chip resistor (Carbon)

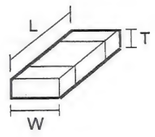
(EX) R K 7 3 E B 2 B 0 0 0 J
1 2 3 4 5 6 7
(Chip) (B,F)

• Carbon resistor (Normal type)

(EX) R D 1 4 B B 2 C 0 0 0 J
1 2 3 4 5 6 7

1 = Type
2 = Shape
3 = Dimension
4 = Temp. coefficient
5 = Rating wattage
6 = Value
7 = Tolerance

Dimension

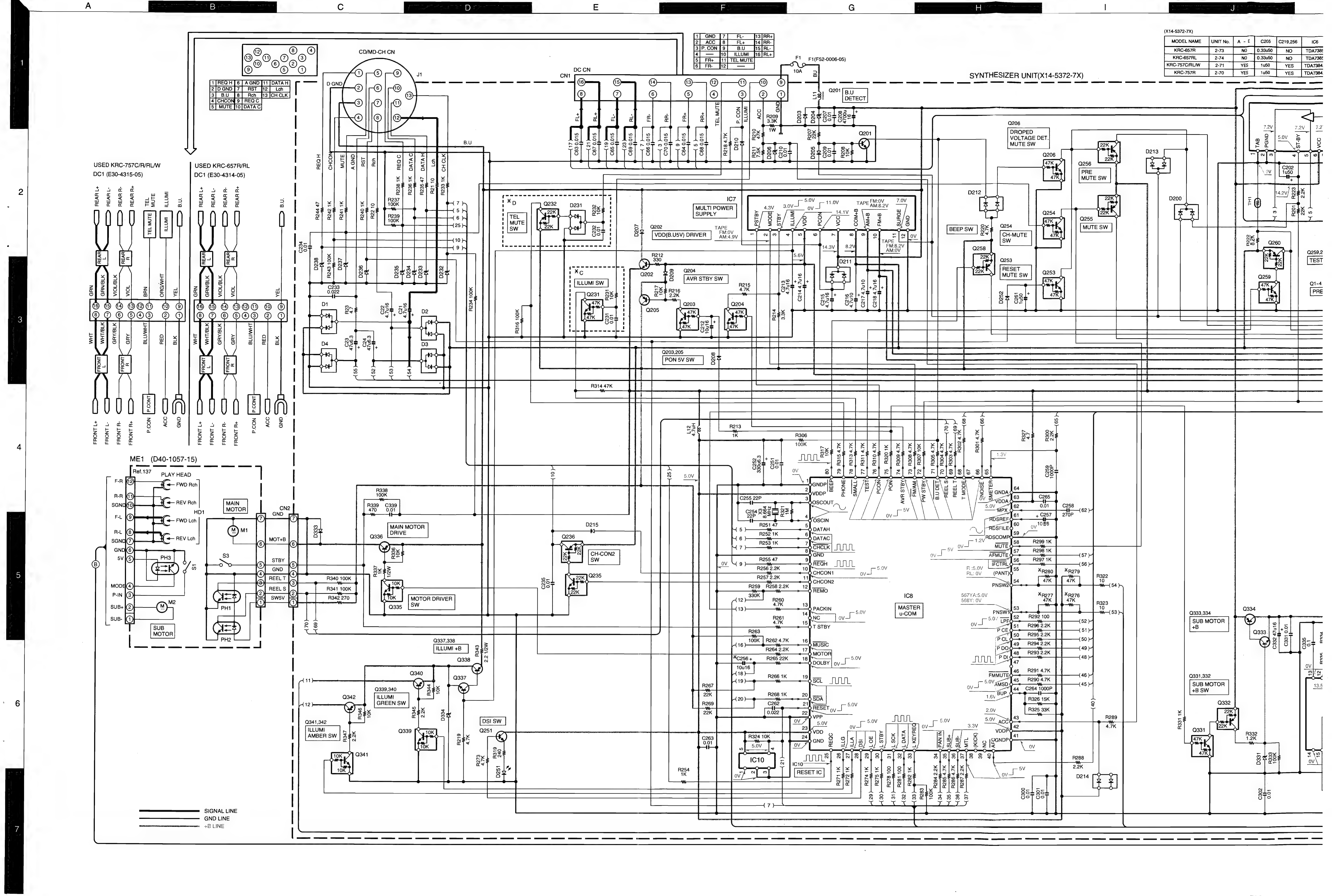


Dimension (Chip resistor)

Dimension code	L	W	T
E	3.2 ± 0.2	1.6 ± 0.2	1.0
F	2.0 ± 0.3	1.25 ± 0.2	1.0
G	1.6±0.2	0.8±0.2	0.5±0.1

Rating wattage

Code	Wattage	Code	Wattage	Code	Wattage
1J	1/16W	2C	1/6W	3A	1W
2A	1/10W	2E	1/4W	3D	2W
2B	1/8W	2H	1/2W		



(X14-5372-7X)

MODEL NAME	UNIT No.	A ~ E	C205	C219,256	IC6
KRC-657R	2-73	NO	0.33u50	NO	TDA7385
KRC-657RL	2-74	NO	0.33u50	NO	TDA7385
KRC-757C/RL/W	2-71	YES	1u50	YES	TDA7384
KRC-757R	2-70	YES	1u50	YES	TDA7384

F G H I J K L M N O

1	GND	7	FL-	13	RR+
2	ACC	8	FL+	14	RR-
3	P. CON	9	B.U	15	RL-
4	—	10	ILLUM	16	RL+
5	FR+	11	TEL MUTE		
6	FR-	12	—		

(X14-5372-7X)

MODEL NAME	UNIT No.	A ~ E	C205	C219,256	IC6	J3	R13,14	R204	R276	R277	R279	R280
KRC-657R	2-73	NO	0.33u50	NO	TDA7385	YES	YES	3.6K	NO	YES	YES	NO
KRC-657RL	2-74	NO	0.33u50	NO	TDA7385	YES	YES	3.6K	NO	YES	NO	YES
KRC-757C/RL/W	2-71	YES	1u50	YES	TDA7384A	NO	NO	680	YES	NO	NO	YES
KRC-757R	2-70	YES	1u50	YES	TDA7384A	NO	NO	680	YES	NO	YES	NO

SYNTHESIZER UNIT(X14-5372-7X)

F1 F1(F52-0006-05) 10A

Q201 B.U DETECT

Q206 DROPED VOLTAGE DET. MUTE SW

Q256 PRE MUTE SW

Q255 MUTE SW

Q254 CH-MUTE SW

Q253 RESET MUTE SW

BEEP SW

Q258

IC7 MULTI POWER SUPPLY

Q202 VDD(B.U5V) DRIVER

Q204 AVR STBY SW

Q203,205 PON 5V SW

IC8 MASTER u-COM

IC10 RESET IC

IC6 POWER AMPLIFIER

Q259,260 TEST MODE SW

Q1~4 PRE MUTE SW

IC9 SUB MOTOR DRIVER

CONROL CIRCUIT

Q333,334 SUB MOTOR +B

Q331,332 SUB MOTOR +B SW

PRE OUT F-Lch 1, F-Rch 2, R-Lch 3, R-Rch 4 — J2

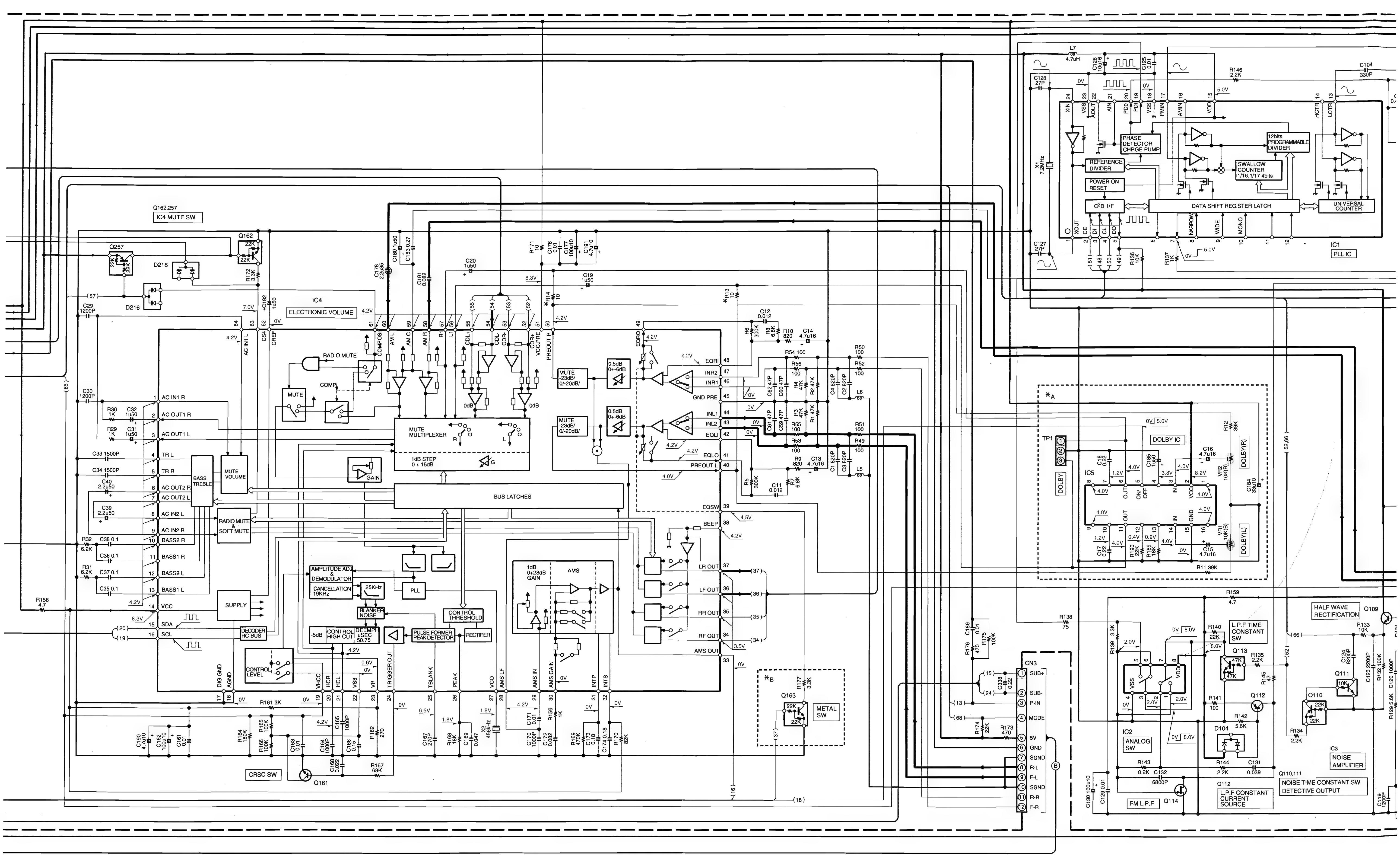
PRE OUT R-Lch 1, R-Rch 2 — J3

PANEL 5V SW

RESET SW

CN4 u-GND, PNSW1, PNSW2, AMB+B, GRE+B, ILL ESD-G, L DATA, L STBY, L OE, L SCK, L KEY REQ, RST, REMO, PAN 5V, PAN SW

P Q R S T U V W X Y



Q162,257
IC4 MUTE SW
Q257
Q162
D218
D216
IC4
ELECTRONIC VOLUME
RADIO MUTE
MUTE
COMP
MUTE MULTIPLEXER
1dB STEP 0 + 15dB
GAIN
BUS LATCHES
BASS TREBLE
MUTE VOLUME
RADIO MUTE & SOFT MUTE
SUPPLY
DECODER RC BUS
CONTROL LEVEL
AMPLITUDE ADJ. & DEMODULATOR
CANCELLATION 19KHz
25KHz
PLL
BLANKER NOISE
CONTROL HIGH CUT
DEEMPH uSEC 50.75
PULSE FORMER PEAK DETECTOR
RECTIFIER
CONTROL THRESHOLD
1dB 0+28dB GAIN
AMS
MUTE -23dB/ 0/-20dB/
0.5dB 0+-6dB
CRSC SW
Q161
Q163
METAL SW
CN3
IC1
PLL IC
PHASE DETECTOR CHRGE PUMP
REFERENCE DIVIDER
POWER ON RESET
C²B I/F
DATA SHIFT REGISTER LATCH
12bits PROGRAMMABLE DIVIDER
SWALLOW COUNTER 1/16,1/17 4bits
UNIVERSAL COUNTER
TP1
DOLBY
DOLBY IC
IC5
DOLBY(R)
DOLBY(L)
HALF WAVE RECTIFICATION
L.P.F TIME CONSTANT SW
IC2
ANALOG SW
IC3
NOISE AMPLIFIER
Q112
L.P.F CONSTANT CURRENT SOURCE
Q110,111
NOISE TIME CONSTANT SW DETECTIVE OUTPUT
FM L.P.F
Q114

CAUTION: *For continued safety, replace safety critical components only with manufacturer's recommended parts (refer to parts list). ⚠ indicates safety critical components. For continued protection against risk of fire, replace only with same type and rating fuse(s). To reduce the risk of electric shock, leakage-current or resistance measurements shall be carried out (exposed parts are acceptably insulated from the supply circuit) before the appliance is returned to the customer.*

The DC voltage is an actual reading measured with a high impedance type voltmeter with no signal input. The measurement value may vary depending on the measuring instruments used or on the product.

Refer to page4 for A1's schematic.

IC1	: LC72146M	Q1~4	: DTC143TK
IC2	: TC4W66F	Q101,113,203,204,206,231,	
IC3	: NJM4565M	253,254,259,331	: DTC144EK
IC4	: TDA7420	Q102,103,162,163,235,252	
IC5	: HA12134AF		: DTC124EK
IC6	: *	Q104,112,164,205	: 2SA1037K
IC7	: BA3917-V4	Q105~109,117,161,201,	
IC8	: ST7285A5Q6ACFH	251,333,337	: 2SC2412K
IC9	: BA6219BFP-Y	Q110,232,236,255~258,	
IC10	: PST9137NR	260,332	: DTA124EK
		Q111	: DTC114TK
D1~4,104	: DA204K	Q114,116	: 2SK536
D101~103,201,202,205,208,		Q202	: 2SD1760
209,215,252	: 1SS133	Q334,336	: 2SB1443
D200,211,213,216,218,231		Q335,339,341	: DTC114EK
	: DAN202K	Q338	: 2SB1184
D203	: RM10ZLF	Q340,342	: 2SB1277
D204	: UZL-7(L3)		
D206	: UZ-5.1BS(B)		
D207,210,333	: AM01Z		
D212,214	: DA227		
D232~238	: UZ-6.2BS(B)		
D251	: B30-1449-05		
D331	: UZ-22BS(B)		
D332	: UZ-7.5BS(B)		
D334	: UZ-12BS(B)		

SWITCH UNIT (X25-7560-1X)

IC1
(BOTTOM VIEW)

ED1 (SEGMENT)

ED1 (COMMON)

(X25-7560-1X)	
MODEL NAME	UNIT No.
KRC-657R/RL	0-11
KRC-757C/R/RL/W	0-10

IC1 : UPD16431A
IC2 : RS-31N

Q1 : DTC144EK
Q2 : DTA114EK

D1~19 : B30-1349-05
D21~23 : DA227
D24~28 : UZMA6.2
D29,30 : DAN202K

CAUTION: *For continued safety, replace safety critical components only with manufacturer's recommended parts (refer to parts list). ⚠ indicates safety critical components. For continued protection against risk of fire, replace only with same type and rating fuse(s). To reduce the risk of electric shock, leakage-current or resistance measurements shall be carried out (exposed parts are acceptably insulated from the supply circuit) before the appliance is returned to the customer.*

The DC voltage is an actual reading measured with a high impedance type voltmeter with no signal input. The measurement value may vary depending on the measuring instruments used or on the product.

(X25-7560-1X)

MODEL NAME	UNIT No.
KRC-657R/RL	0-11
KRC-757C/R/RL/W	0-10

IC1 : UPD16431A
IC2 : RS-31N

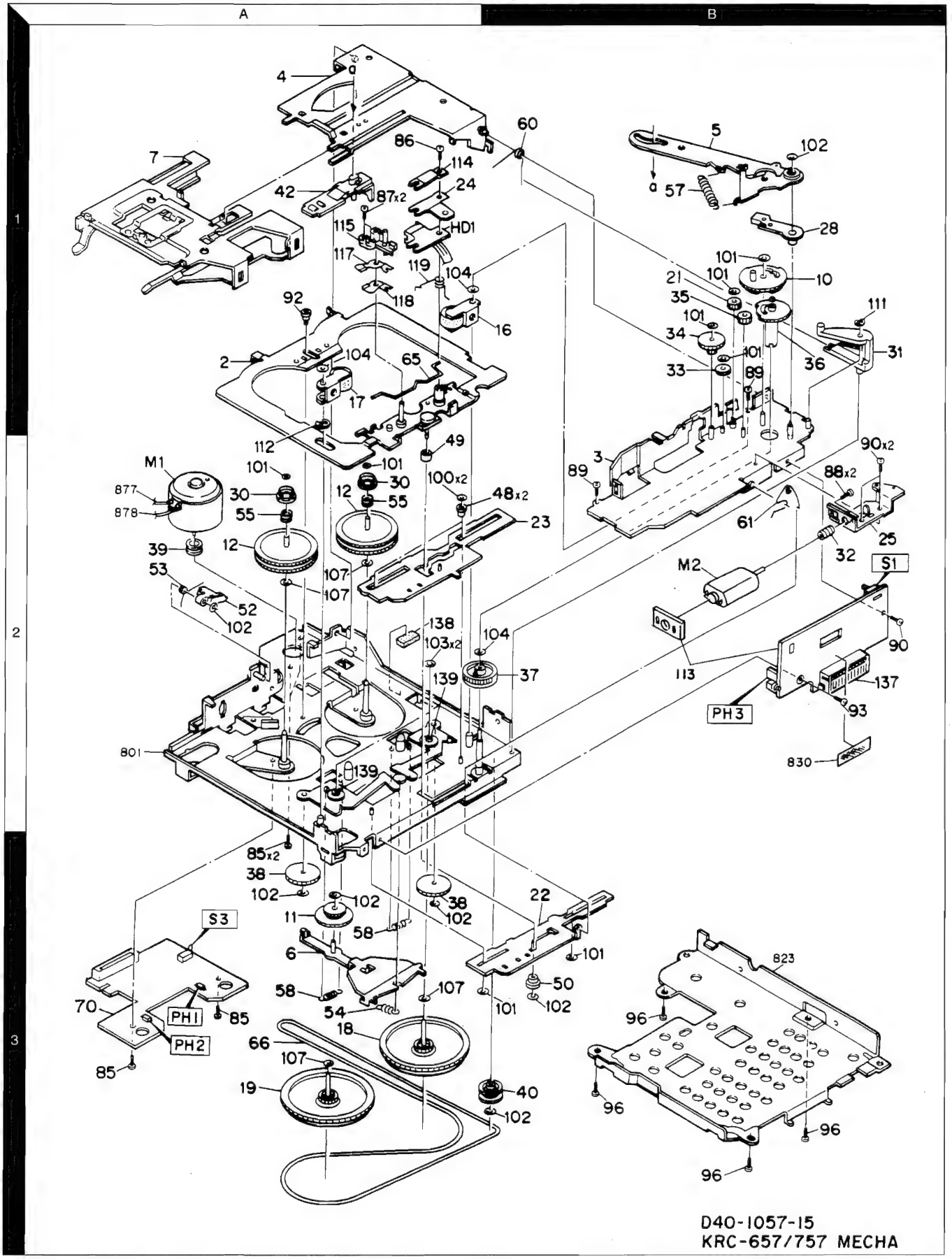
Q1 : DTC144EK
Q2 : DTA114EK

D1~19 : B30-1349-05
D21~23 : DA227
D24~28 : UZMA6.2
D29,30 : DAN202K

GND LINE
+B LINE

KRC-657R/RL (2/2)
KRC-757C/R/RL/W (2/2)

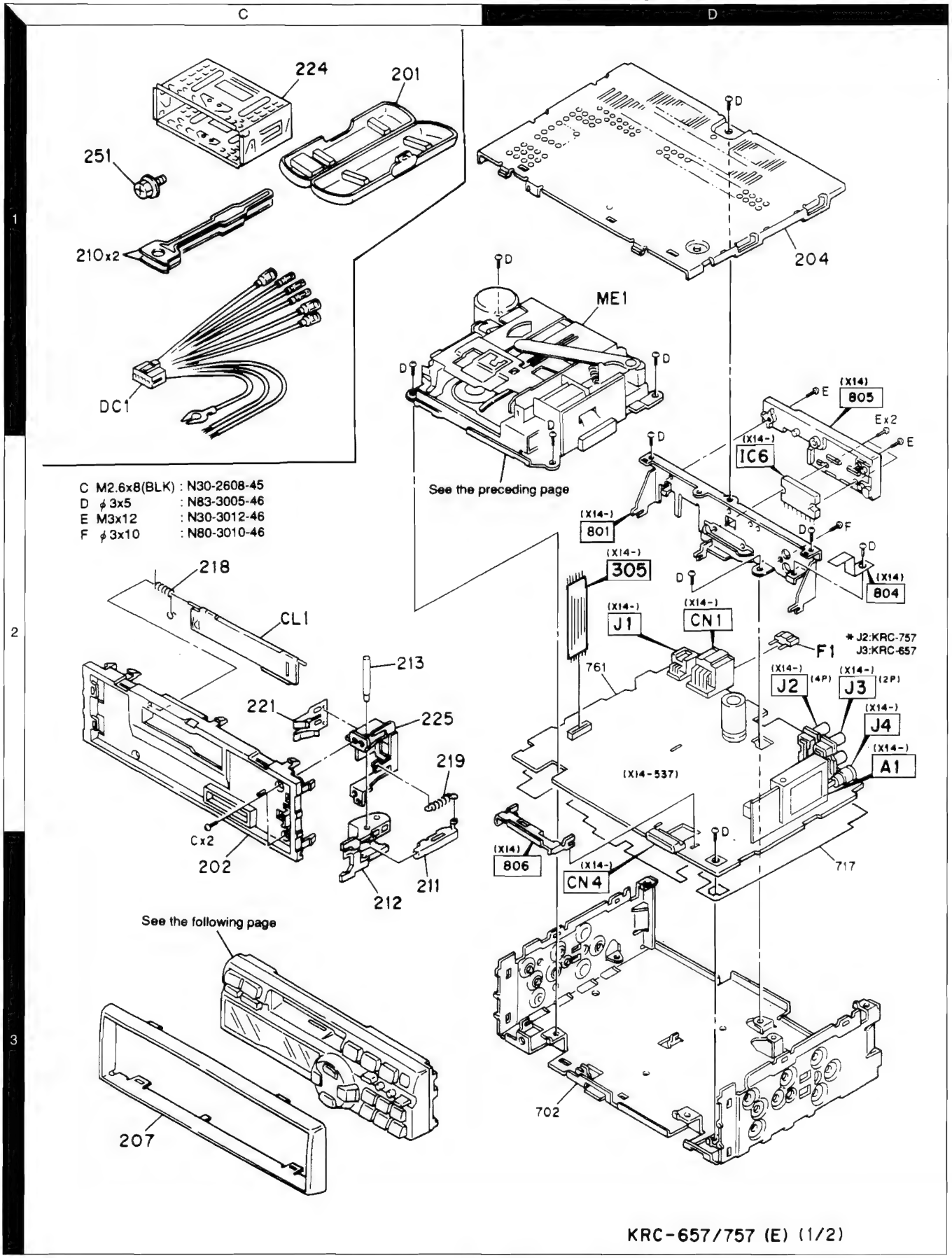
EXPLODED VIEW (MECHANISM)



Parts with the exploded numbers larger than 700 are not supplied.

KRC-657,757

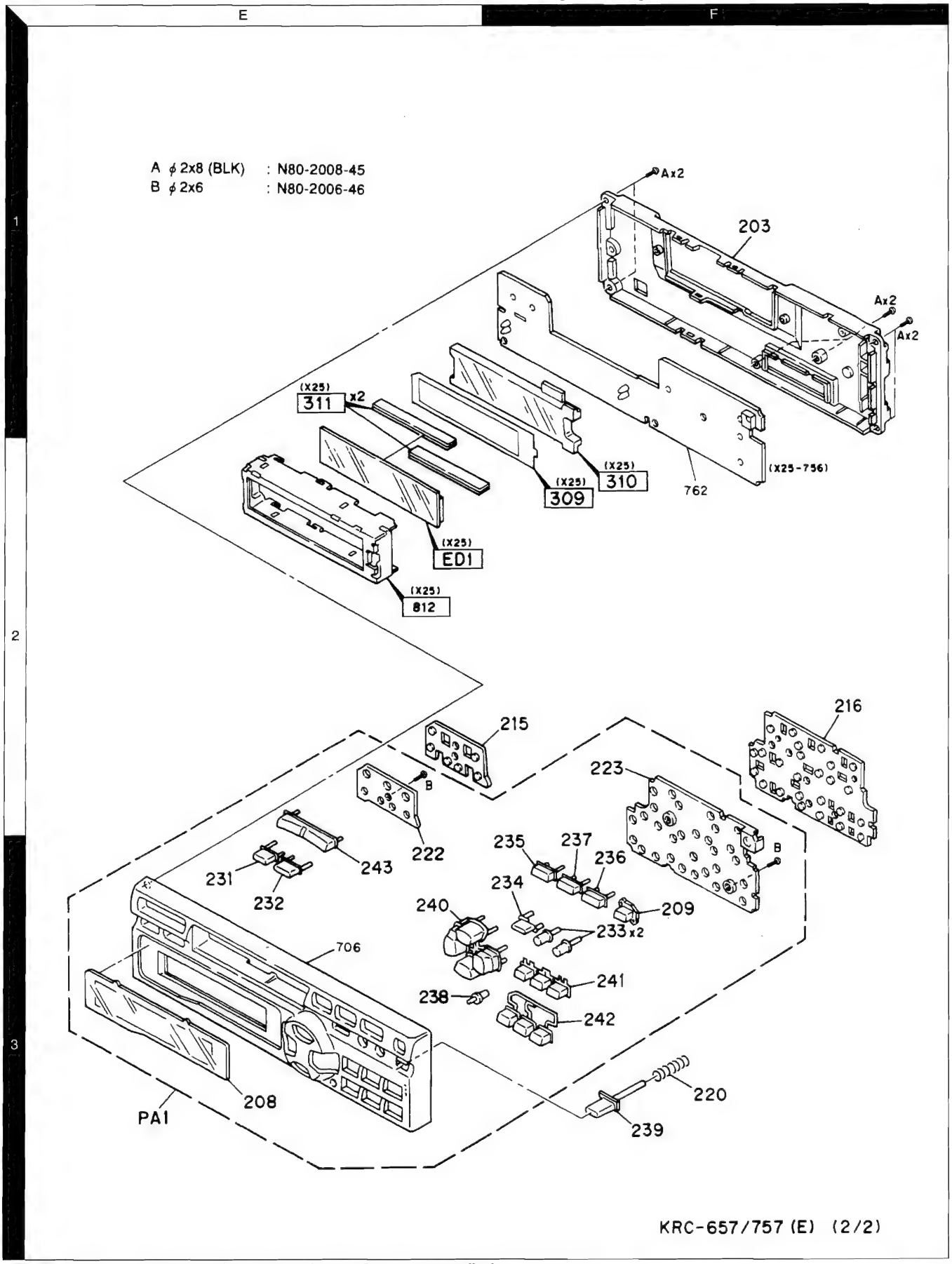
EXPLODED VIEW (UNIT)



KRC-657/757 (E) (1/2)

Parts with the exploded numbers larger than 700 are not supplied.

EXPLODED VIEW (UNIT)



Parts with the exploded numbers larger than 700 are not supplied.

KRC-657,757

PARTS LIST

*New Parts
Parts without **Part No.** are not supplied.
Les articles non mentionnes dans le **Parts No.** ne sont pas fournis.
Teile ohne **Parts No.** werden nicht geliefert.

Ref.No.	Add	New	Psrts No.	Description	Model Name KRC-
KRC-657R/RL,757C/R/RL/W					
201	1C		A02-1443-03	PLASTIC CABINET ASSY	
202	3C		A22-1260-01	SUB PANEL	
203	1F		A46-1244-11	REAR COVER	657R/RL
203	1F		A46-1244-11	REAR COVER	757C
203	1F		A46-1244-11	REAR COVER	757R/RL
203	1F	*	A46-1247-01	REAR COVER	757W
204	1D		A52-0690-02	TOP PLATE	
CL1	2C		A53-1617-03	CASSETTE LID	
PA1	3E	*	A64-0619-02	PANEL ASSY	757R
PA1	3E	*	A64-0620-02	PANEL ASSY	757RL
PA1	3E	*	A64-0623-02	PANEL ASSY	657R
PA1	3E	*	A64-0624-02	PANEL ASSY	657RL
PA1	3E	*	A64-0627-02	PANEL ASSY	757C
PA1	3E	*	A64-0628-02	PANEL ASSY	757W
207	3C		B07-2067-02	ESCUTCHEON	657R/RL
207	3C		B07-2067-02	ESCUTCHEON	757R/RL
207	3C	*	B07-2068-02	ESCUTCHEON	757C
207	3C	*	B07-2069-02	ESCUTCHEON	757W
208	3E		B10-1635-03	FRONT GLASS	757C/W
208	3E		B10-1635-03	FRONT GLASS	757R/RL
208	3E		B10-1636-03	FRONT GLASS	657R/RL
209	3F		B10-1632-04	FRONT GLASS (Sensor)	
-			B46-0100-40	WARRANTY CARD	
-			B46-0182-14	ID CARD	657R
-			B46-0182-14	ID CARD	757R
-			B46-0606-04	ID CARD	657RL
-			B46-0606-04	ID CARD	757C/W
-			B46-0606-04	ID CARD	757RL
-			B58-1223-04	CAUTION CARD (CH,4-Lang.)	
-			B58-1225-04	CAUTION CARD (CH,2-Lang.)	657RL
-			B58-1225-04	CAUTION CARD (CH,2-Lang.)	757C/W
-			B58-1225-04	CAUTION CARD (CH,2-Lang.)	757RL
-		*	B64-0726-00	INST. MANUAL (DUTCH)	657RL
-		*	B64-0726-00	INST. MANUAL (DUTCH)	757C/W
-		*	B64-0726-00	INST. MANUAL (DUTCH)	757RL
-		*	B64-0727-00	INST. MANUAL (ENG.,FRE.)	657RL
-		*	B64-0727-00	INST. MANUAL (ENG.,FRE.)	757C/W
-		*	B64-0727-00	INST. MANUAL (ENG.,FRE.)	757RL
-		*	B64-0728-00	INST. MANUAL (GER.,ITA.)	
-		*	B64-0729-00	INST. MANUAL (SPA.,POR.)	657R
-		*	B64-0729-00	INST. MANUAL (SPA.,POR.)	757C/W
-		*	B64-0729-00	INST. MANUAL (SPA.,POR.)	757R
210	1C		D10-3031-04	LEVER (Accessory)	
211	3C		D10-3037-03	LEVER	
212	3C		D10-3038-03	LEVER	
213	2C		D21-2142-04	SHAFT	
ME1	1D		D40-1057-15	CASSETTE MECHANISM ASSY	
215	2F		E29-1487-04	CONDUCTIVE RUBBER (Left)	
216	2F		E29-1488-03	CONDUCTIVE RUBBER (Right)	
⚠ DC1	1C		E30-4314-05	DC CORD ASSY (C.C.)	657R/RL
⚠ DC1	1C	*	E30-4315-05	DC CORD ASSY (C.C.)	757C/W
⚠ DC1	1C	*	E30-4315-05	DC CORD ASSY (C.C.)	757R/RL

Ref.No.	Add	New	Psrts No.	Description	Model Name KRC-
⚠ F1	2D		F52-0006-05	MINI BLADE FUSE (10A)(CC)	
218	2C		G01-2525-04	TORSION COIL SPRING	
219	2C		G01-2710-04	EXTENSION SPRING	
220	3F		G01-2738-04	COMPRESSION SPRING	
221	2C		G02-1191-03	FLAT SPRING	
-			H10-4521-02	POLY. FOAMED FIXTURE	
-			H25-0329-04	PROTECTION BAG (280X450)	657R
-			H25-0329-04	PROTECTION BAG (280X450)	757R
-			H25-0337-04	PROTECTION BAG (180X300)	
-			H25-1111-04	PROTECTION BAG (280X450)	657RL
-			H25-1111-04	PROTECTION BAG (280X450)	757C/W
-			H25-1111-04	PROTECTION BAG (280X450)	757RL
-		*	H54-0491-04	ITEM CARTON CASE	757R
-		*	H54-0492-04	ITEM CARTON CASE	757RL
-		*	H54-0494-04	ITEM CARTON CASE	757C
-		*	H54-0496-04	ITEM CARTON CASE	757W
-		*	H54-0498-04	ITEM CARTON CASE	657R
-		*	H54-0499-04	ITEM CARTON CASE	657RL
-		*	H64-0526-04	OUTER CARTON CASE	757R
-		*	H64-0527-04	OUTER CARTON CASE	757RL
-		*	H64-0529-04	OUTER CARTON CASE	757C
-		*	H64-0531-04	OUTER CARTON CASE	757W
-		*	H64-0533-04	OUTER CARTON CASE	657R
-		*	H64-0534-04	OUTER CARTON CASE	657RL
222	3E	*	J19-4629-04	HOLDER (Left)	
223	2F	*	J19-4630-03	HOLDER (Right)	
224	1C		J21-7630-13	MOUNTING HARDWARE ASSY	
225	2C		J21-7651-03	MOUNTING HARDWARE	
231	3E		K24-1671-04	KNOB (ATT)	
232	3E		K24-1672-04	KNOB (AUD)	
233	3F		K24-1673-04	KNOB (TI,DISP)	
234	3F		K24-1674-04	KNOB (MENU)	
235	3F		K24-1675-04	KNOB (PROG)	
236	3F		K24-1676-04	KNOB (TUNE)	
237	3F		K24-1677-04	KNOB (CD•MD)	
238	3E		K24-1679-04	KNOB (RESET)	
239	3F		K24-1680-04	KNOB (RELEASE)	
240	3E		K25-0728-03	KNOB (FM,DISC,AM)	
241	3F		K25-0729-03	KNOB (1,2,3)	
242	3F		K25-0730-03	KNOB (4,5,6)	
243	3E		K25-0731-03	KNOB (VOL)	
251	1C		N09-1885-05	SEMS (Accessory)	
A	1F		N80-2008-45	PAN HEAD TAPTITE SCREW	
B	2E		N80-2006-46	PAN HEAD TAPTITE SCREW	
C	3C		N30-2608-45	PAN HEAD MACHINE SCREW	
D	1D		N83-3005-46	PAN HEAD TAPTITE SCREW	
SYNTHESIZER UNIT (X14-5372-7x)					
D251			B30-1449-05	LED	
C1 -4			CK73FB1H821K	CHIP C 820PF K	
C11 ,12			CK73FB1H123K	CHIP C 0.012UF K	
C13 ,14			CE04CW1C4R7M	ELECTRO 4.7UF 16WV	
C15 ,16			CE04CW1C4R7M	ELECTRO 4.7UF 16WV	757C/W
C15 ,16			CE04CW1C4R7M	ELECTRO 4.7UF 16WV	757R/RL

E: Europe **K:** North America **M:** Other Areas
W: Without Europe

⚠ indicates safety critical components.

PARTS LIST

*New Parts
Parts without **Part No.** are not supplied.
Les articles non mentionnes dans le **Parts No.** ne sont pas fournis.
Teile ohne **Parts No.** werden nicht geliefert.

(X14-5372-7x)

Ref.No.	Add	New	Psrts No.	Description			Model Name KRC-
C17 , 18			C93-0025-05	CERAMIC	0.22UF	K	757C/W
C17 , 18			C93-0025-05	CERAMIC	0.22UF	K	757R/RL
C19 , 20			CE04CW1H010M	ELECTRO	1.0UF	50WV	
C21 , 22			CE04CW1C4R7M	ELECTRO	4.7UF	16WV	
C23 , 24			CE04CW0J470M	ELECTRO	47UF	6.3WV	
C29 , 30			CK73FB1H122K	CHIP C	1200PF	K	
C31 , 32			CE04CW1H010M	ELECTRO	1.0UF	50WV	
C33 , 34			CK73FB1H152K	CHIP C	1500PF	K	
C35 -38			CK73FB1C104K	CHIP C	0.10UF	K	
C39 , 40			CE04CW1H2R2M	ELECTRO	2.2UF	50WV	
C41 -44			CE04CW1C100M	ELECTRO	10UF	16WV	
C45 -48			CE04CW1HR33M	ELECTRO	0.33UF	50WV	
C49 -52			CK73FB1H821K	CHIP C	820PF	K	
C53 , 54			CK73FB1H562K	CHIP C	5600PF	K	757C/W
C53 , 54			CK73FB1H562K	CHIP C	5600PF	K	757R/RL
C55 , 56			CK73FB1H562K	CHIP C	5600PF	K	
C59 -62			CC73FCH1H470J	CHIP C	47PF	J	
C63 -70			CK73FB1H153KTA	CHIP C	0.015UF	K	
C101, 102			CK73FB1H103K	CHIP C	0.010UF	K	
C103			CE04CW1A101M	ELECTRO	100UF	10WV	
C104			CK73FB1H331K	CHIP C	330PF	K	
C105			CK73FB1C823K	CHIP C	0.082UF	K	
C106			CK73FB1H103K	CHIP C	0.010UF	K	
C107			CE04DW1A101M	ELECTRO	100UF	10WV	
C108			CK73FB1H103K	CHIP C	0.010UF	K	
C109			CE04DW1A101M	ELECTRO	100UF	10WV	
C110			CC73FCH1H470J	CHIP C	47PF	J	
C111			CK73FB1H103K	CHIP C	0.010UF	K	
C112			CE04NW1C100M	ELECTRO	10UF	16WV	
C113			CK73FB1H471K	CHIP C	470PF	K	
C114			CC73FCH1H121J	CHIP C	120PF	J	
C115			CC73FCH1H120J	CHIP C	12PF	J	
C116			CK73FB1H122K	CHIP C	1200PF	K	
C117			CK73FB1H471K	CHIP C	470PF	K	
C118			CC73FCH1H820J	CHIP C	82PF	J	
C119			CK73FB1H122K	CHIP C	1200PF	K	
C120			CK73FB1H102K	CHIP C	1000PF	K	
C121			CC73FCH1H060D	CHIP C	6.0PF	D	
C122			CK73FB1H223KTA	CHIP C	0.022UF	K	
C123			CK73FB1H222K	CHIP C	2200PF	K	
C124			CK73FB1H822K	CHIP C	8200PF	K	
C125			CK73FB1H103K	CHIP C	0.010UF	K	
C126			CE04CW1C100M	ELECTRO	10UF	16WV	
C127, 128			CC73FCH1H270J	CHIP C	27PF	J	
C129			CK73FB1H103K	CHIP C	0.010UF	K	
C130			CE04CW1A101M	ELECTRO	100UF	10WV	
C131			CF92FV1H393J	MF-C	0.039UF	J	
C132			CF92FV1H682J	MF-C	6800PF	J	
C133			CK73FB1E683KTA	CHIP C	0.068UF	K	
C134			C90-2807-05	NP-ELEC	0.47UF	50WV	
C135			CK73FB1H103K	CHIP C	0.010UF	K	
C136			CE04CW1A101M	ELECTRO	100UF	10WV	
C137			CK73FB1H223KTA	CHIP C	0.022UF	K	
C139			CK73FB1H223KTA	CHIP C	0.022UF	K	
C141, 142			CK73FB1H103K	CHIP C	0.010UF	K	

Ref.No.	Add	New	Psrts No.	Description			Model Name KRC-
C161			CK73FB1H103K	CHIP C	0.010UF	K	
C162			CE04CW1A101M	ELECTRO	100UF	10WV	
C163			CK73FB1H103K	CHIP C	0.010UF	K	
C164, 165			CK73FB1H102K	CHIP C	1000PF	K	
C166			CK73EB1E154K	CHIP C	0.15UF	K	
C167			CC73FCH1H271J	CHIP C	270PF	J	
C168			CK73FB1H223KTA	CHIP C	0.022UF	K	
C169			CK73FB1E473KTA	CHIP C	0.047UF	K	
C170			CK73FB1H102K	CHIP C	1000PF	K	
C171			CK73FB1H103K	CHIP C	0.010UF	K	
C172			CK73FB1C823K	CHIP C	0.082UF	K	
C173, 174			CK73EB1E184K	CHIP C	0.1BUF	K	
C176			CK73FB1H103K	CHIP C	0.010UF	K	
C177			CE04CW1A101M	ELECTRO	100UF	10WV	
C178			C90-2525-05	NP-ELECT	2.2UF	35WV	
C180			CE04CW1H010M	ELECTRO	1.0UF	50WV	
C181			CK73EB1H823K	CHIP C	0.082UF	K	
C182			CE04CW1H010M	ELECTRO	1.0UF	50WV	
C183			CK73EB1E274K	CHIP C	0.27UF	K	
C184			CE04CW1A330M	ELECTRO	33UF	10WV	757C/W
C184			CE04CW1A330M	ELECTRO	33UF	10WV	757R/RL
C185			CE04CW1H010M	ELECTRO	1.0UF	50WV	757C/W
C185			CE04CW1H010M	ELECTRO	1.0UF	50WV	757R/RL
C186			CK73FB1H103K	CHIP C	0.010UF	K	
C188			CK73FB1H103K	CHIP C	0.010UF	K	
C189			CE04CW0J101M	ELECTRO	100UF	6.3WV	
C190, 191			C92-0009-05	CHIP-TAN	4.7UF	10WV	
C202			CE04CW1H010M	ELECTRO	1.0UF	50WV	
C203			CE04CW1A101M	ELECTRO	100UF	10WV	
C204			CK73FB1H821K	CHIP C	820PF	K	
C205			CE04CW1H010M	ELECTRO	1.0UF	50WV	757C/W
C205			CE04CW1H010M	ELECTRO	1.0UF	50WV	757R/RL
C205			CE04CW1HR33M	ELECTRO	0.33UF	50WV	657R/RL
C207			CK73FB1H103K	CHIP C	0.010UF	K	
C208		*	C90-2853-05	ELECTRO	4700UF	16WV	
C209, 210			CK73FB1H103K	CHIP C	0.010UF	K	
C212			CE04CW1C100M	ELECTRO	10UF	16WV	
C213-215			CE04CW1C4R7M	ELECTRO	4.7UF	16WV	
C216, 217			C92-0009-05	CHIP-TAN	4.7UF	10WV	
C218			CE04CW1C4R7M	ELECTRO	4.7UF	16WV	
C219			CK73EB1C334K	CHIP C	0.33UF	K	757C/W
C219			CK73EB1C334K	CHIP C	0.33UF	K	757R/RL
C231, 232			CK73FB1H103K	CHIP C	0.010UF	K	757C/W
C231, 232			CK73FB1H103K	CHIP C	0.010UF	K	757R/RL
C233			CK73FB1H223KTA	CHIP C	0.022UF	K	
C234, 235			CK73FB1H103K	CHIP C	0.010UF	K	
C251			CK73FB1H103K	CHIP C	0.010UF	K	
C252			CE04CW0J331M	ELECTRO	330UF	6.3WV	
C254, 255			CC73FCH1H220J	CHIP C	22PF	J	
C256			CE04CW1C100M	ELECTRO	10UF	16WV	757C/W
C256			CE04CW1C100M	ELECTRO	10UF	16WV	757R/RL
C257			CE04CW1C100M	ELECTRO	10UF	16WV	
C258			CK73FB1H271K	CHIP C	270PF	K	
C259			CK73FB1H102K	CHIP C	1000PF	K	
C260, 261			CE04CW1H010M	ELECTRO	1.0UF	50WV	

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Ref.No.	Add	New	Psrts No.	Description	Model Name KRC-
C262			CK73FB1H223KTA	CHIP C 0.022UF K	
C263			CK73FB1H103K	CHIP C 0.010UF K	
C264			CK73FB1H102K	CHIP C 1000PF K	
C265			CK73FB1H103K	CHIP C 0.010UF K	
C300			CK73FB1H103K	CHIP C 0.010UF K	
C301			CK73EB1H103K	CHIP C 0.010UF K	
C302			CK73FB1H103K	CHIP C 0.010UF K	
C331			CK73FB1H103K	CHIP C 0.010UF K	
C332			CE04CW1C470M	ELECTRO 47UF 16WV	
C333			CK73EB1E104K	CHIP C 0.10UF K	
C334			CK73FB1H103K	CHIP C 0.010UF K	
C335			CK73EB1E104K	CHIP C 0.10UF K	
C336-338			CK73EB1E224K	CHIP C 0.22UF K	
C339			CK73FB1H103K	CHIP C 0.010UF K	
305	2D		E31-8094-05	LEAD WIRE	
⚠ CN1	2D		E58-0836-05	RECTANGU. RECEPTACLE (CC)	
CN3			E40-5452-05	PIN ASSY	
CN4	3D		E58-0838-05	RECTANGULAR RECEPTACLE	
J1	2D		E56-0809-05	CYLINDRICAL RECEPTACLE	
J2	2D		E13-0446-05	PHONO JACK (4P, RCA)	757C/W
J2	2D		E13-0446-05	PHONO JACK (4P, RCA)	757R/RL
J3	2D		E13-0235-05	PHONO JACK (2P, RCA)	657R/RL
J4	2D		E04-0306-05	RF CABLE RECEPTACLE	
TP1			E40-9184-05	PIN ASSY	757C/W
TP1			E40-9184-05	PIN ASSY	757R/RL
L1			L33-1039-05	LINE FILTER COIL	
L2			L40-1001-17	FIXED INDUCTOR (10uH)	
L5 ,6			L92-0308-05	FERRITE CORE	
L7			L40-4791-17	FIXED INDUCTOR (4.7uH)	
L10			L40-1001-17	FIXED INDUCTOR (10uH)	
⚠ L11			L33-1044-05	CHOKE COIL (C.C.)	
L12			L40-4791-17	FIXED INDUCTOR (4.7uH)	
X1			L77-1166-05	RESONATOR (7.2MHz)	
X2			L78-0545-05	RESONATOR (456KHz)	
X3		*	L77-2051-05	RESONATOR (8.664MHz)	
X3		*	L77-2052-05	RESONATOR (8.664MHz)	
D	2D		N83-3005-46	PAN HEAD TAPTITE SCREW	
E	2D		N30-3012-46	PAN HEAD MACHINE SCREW	
F	2D		N80-3010-46	PAN HEAD TAPTITE SCREW	
R1 -4			RK73FB2A473J	CHIP R 47K J 1/10W	
R5 ,6			RK73FB2A304J	CHIP R 300K J 1/10W	
R7 ,8			RK73FB2A682J	CHIP R 6.8K J 1/10W	
R9 ,10			RK73FB2A821J	CHIP R 820 J 1/10W	
R11 ,12			RK73FB2A393J	CHIP R 39K J 1/10W	757C/W
R11 ,12			RK73FB2A393J	CHIP R 39K J 1/10W	757R/RL
R13 ,14			RK73FB2A100J	CHIP R 10 J 1/10W	657R/RL
R21 ,22			RK73EB2B100J	CHIP R 10 J 1/8W	
R23			RK73EB2B4R7J	CHIP R 4.7 J 1/8W	
R29 ,30			RK73FB2A102J	CHIP R 1.0K J 1/10W	
R31 ,32			RK73FB2A622J	CHIP R 6.2K J 1/10W	
R33 -36			RK73FB2A472J	CHIP R 4.7K J 1/10W	
R37 -40			RK73FB2A303J	CHIP R 30K J 1/10W	
R41 -44			RK73FB2A271J	CHIP R 270 J 1/10W	

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Ref.No.	Add	New	Psrts No.	Description	Model Name KRC-
R45 ,46			RK73FB2A101J	CHIP R 100 J 1/10W	757C/W
R45 ,46			RK73FB2A101J	CHIP R 100 J 1/10W	757R/RL
R47 -56			RK73FB2A101J	CHIP R 100 J 1/10W	
R99			RK73FB2A473J	CHIP R 47K J 1/10W	
R100			RK73FB2A103J	CHIP R 10K J 1/10W	
R101			RK73FB2A363J	CHIP R 36K J 1/10W	
R102			RK73FB2A473J	CHIP R 47K J 1/10W	
R103, 104			RK73FB2A103J	CHIP R 10K J 1/10W	
R105			RK73FB2A102J	CHIP R 1.0K J 1/10W	
R106			RK73EB2B562J	CHIP R 5.6K J 1/8W	
R107, 108			RK73FB2A223J	CHIP R 22K J 1/10W	
R110			RK73FB2A822J	CHIP R 8.2K J 1/10W	
R111			RK73FB2A472J	CHIP R 4.7K J 1/10W	
R112			RK73FB2A561J	CHIP R 560 J 1/10W	
R113			RK73FB2A472J	CHIP R 4.7K J 1/10W	
R114			RK73FB2A182J	CHIP R 1.8K J 1/10W	
R115			RK73FB2A682J	CHIP R 6.8K J 1/10W	
R116			RK73FB2A332J	CHIP R 3.3K J 1/10W	
R117			RK73FB2A473J	CHIP R 47K J 1/10W	
R118			RK73FB2A102J	CHIP R 1.0K J 1/10W	
R119			RK73FB2A472J	CHIP R 4.7K J 1/10W	
R121			RK73FB2A222J	CHIP R 2.2K J 1/10W	
R122, 123			RK73FB2A103J	CHIP R 10K J 1/10W	
R124			RK73FB2A563J	CHIP R 56K J 1/10W	
R125			RK73FB2A272J	CHIP R 2.7K J 1/10W	
R126			RK73FB2A103J	CHIP R 10K J 1/10W	
R127			RK73FB2A153J	CHIP R 15K J 1/10W	
R128, 129			RK73FB2A562J	CHIP R 5.6K J 1/10W	
R130			RK73FB2A823J	CHIP R 82K J 1/10W	
R131			RK73FB2A103J	CHIP R 10K J 1/10W	
R132			RK73FB2A104J	CHIP R 100K J 1/10W	
R133			RK73FB2A103J	CHIP R 10K J 1/10W	
R134, 135			RK73FB2A222J	CHIP R 2.2K J 1/10W	
R136			RK73FB2A103J	CHIP R 10K J 1/10W	
R137			RK73FB2A102J	CHIP R 1.0K J 1/10W	
R138			RK73FB2A750J	CHIP R 75 J 1/10W	
R139			RK73FB2A332J	CHIP R 3.3K J 1/10W	
R140			RK73FB2A223J	CHIP R 22K J 1/10W	
R141			RK73FB2A101J	CHIP R 100 J 1/10W	
R142			RK73FB2A562J	CHIP R 5.6K J 1/10W	
R143			RK73FB2A822J	CHIP R 8.2K J 1/10W	
R144			RK73FB2A222J	CHIP R 2.2K J 1/10W	
R145			RK73FB2A470J	CHIP R 47 J 1/10W	
R146			RK73FB2A222J	CHIP R 2.2K J 1/10W	
R147			RK73FB2A472J	CHIP R 4.7K J 1/10W	
R148			RK73FB2A331J	CHIP R 330 J 1/10W	
R149			RK73FB2A102J	CHIP R 1.0K J 1/10W	
R150			RK73FB2A101J	CHIP R 100 J 1/10W	
R151, 152			RK73FB2A103J	CHIP R 10K J 1/10W	
R153			RK73FB2A163J	CHIP R 16K J 1/10W	
R154-156			RK73FB2A102J	CHIP R 1.0K J 1/10W	
R157			RK73FB2A151J	CHIP R 150 J 1/10W	
R158, 159			RD14BB2C4R7J	RD 4.7 J 1/6W	
R160			RK73FB2A220J	CHIP R 22 J 1/10W	
R161			RK73FB2A302J	CHIP R 3.0K J 1/10W	

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Ref.No.	Add	New	Psrts No.	Description	Model Name KRC-
R162			RK73FB2A271J	CHIP R 270 J 1/10W	
R164			RK73FB2A184J	CHIP R 180K J 1/10W	757C/W
R165, 166			RK73FB2A104J	CHIP R 100K J 1/10W	757R/RL
R167			RK73FB2A683J	CHIP R 68K J 1/10W	
R168			RK73FB2A183J	CHIP R 18K J 1/10W	
R169			RK73FB2A474J	CHIP R 470K J 1/10W	
R170			RK73FB2A823J	CHIP R 82K J 1/10W	
R171			RK73FB2A100J	CHIP R 10 J 1/10W	
R172			RK73FB2A332J	CHIP R 3.3K J 1/10W	
R173			RK73FB2A471J	CHIP R 470 J 1/10W	
R174			RK73FB2A223J	CHIP R 22K J 1/10W	
R175			RK73FB2A104J	CHIP R 100K J 1/10W	
R176			RK73FB2A471J	CHIP R 470 J 1/10W	
R177			RK73FB2A332J	CHIP R 3.3K J 1/10W	757C/W
R177			RK73FB2A332J	CHIP R 3.3K J 1/10W	757R/RL
R178			RK73FB2A473J	CHIP R 47K J 1/10W	
R179			RK73FB2A273J	CHIP R 27K J 1/10W	
R180			RD14BB2C222J	RD 2.2K J 1/6W	
R181-183			RD14BB2C102J	RD 1.0K J 1/6W	
R184			RD14BB2C101J	RD 100 J 1/6W	
R185, 186			RD14BB2C102J	RD 1.0K J 1/6W	
R187			RD14BB2C101J	RD 100 J 1/6W	
R189			RK73FB2A183J	CHIP R 18K J 1/10W	757C/W
R189			RK73FB2A183J	CHIP R 18K J 1/10W	757R/RL
R190			RK73FB2A223J	CHIP R 22K J 1/10W	757C/W
R190			RK73FB2A223J	CHIP R 22K J 1/10W	757R/RL
R191, 192			RD14BB2C101J	RD 100 J 1/6W	
R193, 194			RK73FB2A223J	CHIP R 22K J 1/10W	
R195			RK73FB2A222J	CHIP R 2.2K J 1/10W	
R196			RK73FB2A562J	CHIP R 5.6K J 1/10W	
R197-199			RD14BB2C4R7J	RD 4.7 J 1/6W	
R201			RK73FB2A223J	CHIP R 22K J 1/10W	
R202			RK73FB2A271J	CHIP R 270 J 1/10W	
R203			RK73FB2A273J	CHIP R 27K J 1/10W	
R204			RK73FB2A362J	CHIP R 3.6K J 1/10W	657R/RL
R204			RK73FB2A681J	CHIP R 680 J 1/10W	757C/W
R204			RK73FB2A681J	CHIP R 680 J 1/10W	757R/RL
R205			RK73FB2A391J	CHIP R 390 J 1/10W	
R206			RK73FB2A154J	CHIP R 150K J 1/10W	
R207			RK73FB2A223J	CHIP R 22K J 1/10W	
R208			RK73FB2A103J	CHIP R 10K J 1/10W	
R209			RS14DB3A332J	FL-PR. RS 3.3K J 1W	
R210			RD14BB2C473J	RD 47K J 1/6W	
R211			RD14BB2C752J	RD 7.5K J 1/6W	
R212			RK73FB2A331J	CHIP R 330 J 1/10W	
R213			RK73FB2A102J	CHIP R 1.0K J 1/10W	
R214			RK73FB2A332J	CHIP R 3.3K J 1/10W	
R215			RK73FB2A472J	CHIP R 4.7K J 1/10W	
R216			RK73FB2A222J	CHIP R 2.2K J 1/10W	
R217			RK73FB2A103J	CHIP R 10K J 1/10W	
R218			RK73EB2B472J	CHIP R 4.7K J 1/8W	
R219			RD14BB2C472J	RD 4.7K J 1/6W	
R220			RK73FB2A472J	CHIP R 4.7K J 1/10W	
R221			RK73FB2A273J	CHIP R 27K J 1/10W	
R222			RK73FB2A822J	CHIP R 8.2K J 1/10W	

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Ref.No.	Add	New	Psrts No.	Description	Model Name KRC-
R223			RK73FB2A222J	CHIP R 2.2K J 1/10W	
R231, 232			RD14BB2C103J	RD 10K J 1/6W	757C/W
R231, 232			RD14BB2C103J	RD 10K J 1/6W	757R/RL
R233			RD14BB2C102J	RD 1.0K J 1/6W	
R234			RK73FB2A104J	CHIP R 100K J 1/10W	
R235			RD14BB2C470J	RD 47 J 1/6W	
R236			RD14BB2C102J	RD 1.0K J 1/6W	
R237			RD14BB2C104J	RD 100K J 1/6W	
R238			RD14BB2C102J	RD 1.0K J 1/6W	
R239			RK73FB2A104J	CHIP R 100K J 1/10W	
R240-242			RD14BB2C102J	RD 1.0K J 1/6W	
R243			RD14BB2C104J	RD 100K J 1/6W	
R244			RD14BB2C470J	RD 47 J 1/6W	
R251			RK73FB2A470J	CHIP R 47 J 1/10W	
R252-254			RK73FB2A102J	CHIP R 1.0K J 1/10W	
R255			RK73FB2A470J	CHIP R 47 J 1/10W	
R256-258			RK73FB2A222J	CHIP R 2.2K J 1/10W	
R259			RK73FB2A334J	CHIP R 330K J 1/10W	
R260-262			RK73FB2A472J	CHIP R 4.7K J 1/10W	
R263			RK73FB2A104J	CHIP R 100K J 1/10W	
R264			RK73FB2A222J	CHIP R 2.2K J 1/10W	
R265			RK73FB2A223J	CHIP R 22K J 1/10W	
R266			RK73FB2A102J	CHIP R 1.0K J 1/10W	
R267			RK73FB2A223J	CHIP R 22K J 1/10W	
R268			RK73FB2A102J	CHIP R 1.0K J 1/10W	
R269			RK73FB2A223J	CHIP R 22K J 1/10W	
R271, 272			RK73FB2A102J	CHIP R 1.0K J 1/10W	
R273			RK73FB2A472J	CHIP R 4.7K J 1/10W	
R274, 275			RK73FB2A102J	CHIP R 1.0K J 1/10W	
R276			RK73FB2A473J	CHIP R 47K J 1/10W	757C/W
R276			RK73FB2A473J	CHIP R 47K J 1/10W	757R/RL
R277			RK73FB2A473J	CHIP R 47K J 1/10W	657R/RL
R278			RK73FB2A101J	CHIP R 100 J 1/10W	
R279			RK73FB2A473J	CHIP R 47K J 1/10W	657R
R279			RK73FB2A473J	CHIP R 47K J 1/10W	757R
R280			RK73FB2A473J	CHIP R 47K J 1/10W	657RL
R280			RK73FB2A473J	CHIP R 47K J 1/10W	757C/W
R280			RK73FB2A473J	CHIP R 47K J 1/10W	757RL
R281			RK73FB2A101J	CHIP R 100 J 1/10W	
R282			RK73FB2A102J	CHIP R 1.0K J 1/10W	
R283			RK73FB2A104J	CHIP R 100K J 1/10W	
R284			RK73FB2A222J	CHIP R 2.2K J 1/10W	
R285, 286			RK73FB2A472J	CHIP R 4.7K J 1/10W	
R287, 288			RK73FB2A222J	CHIP R 2.2K J 1/10W	
R289-291			RK73FB2A472J	CHIP R 4.7K J 1/10W	
R292			RK73FB2A101J	CHIP R 100 J 1/10W	
R293-296			RK73FB2A222J	CHIP R 2.2K J 1/10W	
R297-299			RK73FB2A102J	CHIP R 1.0K J 1/10W	
R300			RK73FB2A222J	CHIP R 2.2K J 1/10W	
R301-305			RK73FB2A472J	CHIP R 4.7K J 1/10W	
R306			RK73FB2A104J	CHIP R 100K J 1/10W	
R307			RK73FB2A103J	CHIP R 10K J 1/10W	
R308-311			RK73FB2A472J	CHIP R 4.7K J 1/10W	
R313			RK73FB2A472J	CHIP R 4.7K J 1/10W	
R314			RK73FB2A473J	CHIP R 47K J 1/10W	

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R315			RK73FB2A472J	CHIP R 4.7K J 1/10W	
R316			RK73FB2A104J	CHIP R 100K J 1/10W	
R317			RK73FB2A103J	CHIP R 10K J 1/10W	
R318			RK73FB2A472J	CHIP R 4.7K J 1/10W	
R319			RK73FB2A241J	CHIP R 240 J 1/10W	
R320			RK73FB2A102J	CHIP R 1.0K J 1/10W	
R321			RK73FB2A105J	CHIP R 1.0M J 1/10W	
R322, 323			RK73FB2A100J	CHIP R 10 J 1/10W	
R324			RK73FB2A103J	CHIP R 10K J 1/10W	
R325			RK73FB2A333J	CHIP R 33K J 1/10W	
R326			RK73FB2A153J	CHIP R 15K J 1/10W	
R327			RK73FB2A4R7J	CHIP R 4.7 J 1/10W	
R331			RK73FB2A102J	CHIP R 1.0K J 1/10W	
R332			RK73FB2A122J	CHIP R 1.2K J 1/10W	
R333			RK73FB2A104J	CHIP R 100K J 1/10W	
R334, 335			R92-2104-05	CHIP R 2.2 J 1W	
R336			RD14BB2C103J	RD 10K J 1/6W	
R337			RD14DB2H102J	SMALL-RD 1.0K J 1/2W	
R338			RK73FB2A104J	CHIP R 100K J 1/10W	
R339			RK73FB2A471J	CHIP R 470 J 1/10W	
R340, 341			RK73FB2A104J	CHIP R 100K J 1/10W	
R342			RK73FB2A271J	CHIP R 270 J 1/10W	
R343			RD14DB2H2R2J	SMALL-RD 2.2 J 1/2W	
R344			RK73FB2A103J	CHIP R 10K J 1/10W	
R345			RK73EB28222J	CHIP R 2.2K J 1/8W	
R346			RK73FB2A103J	CHIP R 10K J 1/10W	
R347			RK73EB2B222J	CHIP R 2.2K J 1/8W	
VR1 ,2			R12-0678-05	TRIMMING POT. (10K)	757C/W
VR1 ,2			R12-0678-05	TRIMMING POT. (10K)	757R/RL
VR3			R12-0679-05	TRIMMING POT. (22K)	
D1 -4			DA204K	DIODE	
D101-103			1SS133	DIODE	
D104			DA204K	DIODE	
D200			DAN202K	DIODE	
D200			MA152WK	DIODE	
D201, 202			1SS133	DIODE	
D203			RM10ZLF	DIODE	
D204			UZL-7(L3)	ZENER DIODE	
D205			1SS133	DIODE	
D206			UZ-5.1BS(B)	ZENER DIODE	
D207			AM01Z	DIODE	
D207			DSM1S02	DIODE	
D208, 209			1SS133	DIODE	
D210			AM01Z	DIODE	
D210			DSM1S02	DIODE	
D211			DAN202K	DIODE	
D211			MA152WK	DIODE	
D212			DA227	DIODE	
D213			DAN202K	DIODE	
D213			MA152WK	DIODE	
D214			DA227	DIODE	
D215			1SS133	DIODE	
D216			DAN202K	DIODE	
D216			MA152WK	DIODE	

(X14-5372-7x)

Ref.No.	Add	New	Psrts No.	Description	Model Name KRC-
D218			DAN202K	DIODE	
D218			MA152WK	DIODE	
D231			DAN202K	DIODE	757C/W
D231			DAN202K	DIODE	757R/RL
D231			MA152WK	DIODE	757C/W
D231			MA152WK	DIODE	757R/RL
D232-238			UZ-6.2BS(B)	ZENER DIODE	
D252			1SS133	DIODE	
D331			UZ-22BS(B)	ZENER DIODE	
D332			UZ-7.5BS(B)	ZENER DIODE	
D333			AM01Z	DIODE	
D333			DSM1S02	DIODE	
D334			UZ-12BS(B)	ZENER DIODE	
IC1			LC72146M	MOS-IC	
IC2			TC4W66F	IC	
IC3			NJM4565M	IC(OP AMP X2)	
IC4			TDA7420	ANALOGUE IC	
IC5			HA12134AF	IC(DOLBY B NR SYSTEM)	757C/W
IC5			HA12134AF	IC(DOLBY B NR SYSTEM)	757R/RL
IC6	2D		TDA7384A	ANALOGUE IC	757C/W
IC6	2D		TDA7384A	ANALOGUE IC	757R/RL
IC6	2D		TDA7385	ANALOGUE IC	657R/RL
IC7			BA3917-V4	ANALOGUE IC	
IC8		*	ST7285A5Q6ACFH	MI-COM IC	
IC9			BA6219BFP-Y	ANALOGUE IC	
IC10			PST9137NR	ANALOGUE IC	
Q1 -4			DTC143TK	DIGITAL TRANSISTOR	
Q1 -4			UN2216	DIGITAL TRANSISTOR	
Q101			DTC144EK	DIGITAL TRANSISTOR	
Q101			UN2213	DIGITAL TRANSISTOR	
Q102, 103			DTC124EK	DIGITAL TRANSISTOR	
Q102, 103			UN2212	DIGITAL TRANSISTOR	
Q104			2SA1037K	TRANSISTOR	
Q105-109			2SC2412K	TRANSISTOR	
Q105-109		*	2SD601A	TRANSISTOR	
Q110			DTA124EK	DIGITAL TRANSISTOR	
Q110			UN2112	DIGITAL TRANSISTOR	
Q111			DTC114TK	DIGITAL TRANSISTOR	
Q111			UN2215	DIGITAL TRANSISTOR	
Q112			2SA1037K	TRANSISTOR	
Q113			DTC144EK	DIGITAL TRANSISTOR	
Q113			UN2213	DIGITAL TRANSISTOR	
Q114			2SK536	FET	
Q116			2SK536	FET	
Q117			2SC2412K	TRANSISTOR	
Q117		*	2SD601A	TRANSISTOR	
Q161			2SC2412K	TRANSISTOR	
Q161		*	2SD601A	TRANSISTOR	
Q162			DTC124EK	DIGITAL TRANSISTOR	
Q162			UN2212	DIGITAL TRANSISTOR	
Q163			DTC124EK	DIGITAL TRANSISTOR	757C/W
Q163			DTC124EK	DIGITAL TRANSISTOR	757R/RL
Q163			UN2212	DIGITAL TRANSISTOR	757C/W
Q163			UN2212	DIGITAL TRANSISTOR	757R/RL
Q164			2SA1037K	TRANSISTOR	

E: Europe **K:** North America **M:** Other Areas
W: Without Europe

⚠ indicates safety critical components.

PARTS LIST

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Ref.No.	Add	New	Psrts No.	Description	Model Name KRC-
Q201			2SC2412K	TRANSISTOR	
Q201		*	2SD601A	TRANSISTOR	
Q202			2SD1760	TRANSISTOR	
Q203, 204			DTC144EK	DIGITAL TRANSISTOR	
Q203, 204			UN2213	DIGITAL TRANSISTOR	
Q205			2SA1037K	TRANSISTOR	
Q206			DTC144EK	DIGITAL TRANSISTOR	
Q206			UN2213	DIGITAL TRANSISTOR	
Q231			DTC144EK	DIGITAL TRANSISTOR	757C/W
Q231			DTC144EK	DIGITAL TRANSISTOR	757R/RL
Q231			UN2213	DIGITAL TRANSISTOR	757C/W
Q231			UN2213	DIGITAL TRANSISTOR	757R/RL
Q232			DTA124EK	DIGITAL TRANSISTOR	757C/W
Q232			DTA124EK	DIGITAL TRANSISTOR	757R/RL
Q232			UN2112	DIGITAL TRANSISTOR	757C/W
Q232			UN2112	DIGITAL TRANSISTOR	757R/RL
Q235			DTC124EK	DIGITAL TRANSISTOR	
Q235			UN2212	DIGITAL TRANSISTOR	
Q236			DTA124EK	DIGITAL TRANSISTOR	
Q236			UN2112	DIGITAL TRANSISTOR	
Q251			2SC2412K	TRANSISTOR	
Q251		*	2SD601A	TRANSISTOR	
Q252			DTC124EK	DIGITAL TRANSISTOR	
Q252			UN2212	DIGITAL TRANSISTOR	
Q253, 254			DTC144EK	DIGITAL TRANSISTOR	
Q253, 254			UN2213	DIGITAL TRANSISTOR	
Q255-258			DTA124EK	DIGITAL TRANSISTOR	
Q255-258			UN2112	DIGITAL TRANSISTOR	
Q259			DTC144EK	DIGITAL TRANSISTOR	
Q259			UN2213	DIGITAL TRANSISTOR	
Q260			DTA124EK	DIGITAL TRANSISTOR	
Q260			UN2112	DIGITAL TRANSISTOR	
Q331			DTC144EK	DIGITAL TRANSISTOR	
Q331			UN2213	DIGITAL TRANSISTOR	
Q332			DTA124EK	DIGITAL TRANSISTOR	
Q332			UN2112	DIGITAL TRANSISTOR	
Q333			2SC2412K	TRANSISTOR	
Q333		*	2SD601A	TRANSISTOR	
Q334			2SB1443	TRANSISTOR	
Q335			DTC114EK	DIGITAL TRANSISTOR	
Q335			UN2211	DIGITAL TRANSISTOR	
Q336			2SB1443	TRANSISTOR	
Q337			2SC2412K	TRANSISTOR	
Q337		*	2SD601A	TRANSISTOR	
Q338			2SB1184	TRANSISTOR	
Q339			DTC114EK	DIGITAL TRANSISTOR	
Q339			UN2211	DIGITAL TRANSISTOR	
Q340			2SB1277	TRANSISTOR	
Q341			DTC114EK	DIGITAL TRANSISTOR	
Q341			UN2211	DIGITAL TRANSISTOR	
Q342			2SB1277	TRANSISTOR	
TH1			NT732ATD33KJ	THERMISTOR	
A1	2D	*	W02-1514-05	FM/AM FRONT-END	

Ref.No.	Add	New	Psrts No.	Description	Model Name KRC-
SWITCH UNIT (X25-7560-1x)					
309	2F	*	B11-0910-04	OPTICAL DIFFUSER	757C/W
309	2F	*	B11-0910-04	OPTICAL DIFFUSER	757R/RL
309	2F		B11-0911-04	OPTICAL DIFFUSER	657R/RL
310	2F	*	B19-1049-03	LIGHTING BOARD	757C/W
310	2F	*	B19-1049-03	LIGHTING BOARD	757R/RL
310	2F	*	B19-1050-03	LIGHTING BOARD	657R/RL
D1 -19			B30-1349-05	LED	
ED1	2E	*	B38-0637-05	LIQUID CRYSTAL	757C/W
ED1	2E	*	B38-0637-05	LIQUID CRYSTAL	757R/RL
ED1	2E	*	B38-0638-05	LIQUID CRYSTAL	657R/RL
PL1 ,2			B30-1305-05	LAMP (AMBER) (5.5V .125A)	
PL3 ,4			B30-1306-05	LAMP (GREEN) (5.5V .125A)	
C1			CK73FB1E473KTA	CHIP C 0.047UF K	
C2			C92-0015-05	CHIP TAN 4.7UF 6.3WV	
C3			CK73FB1H103K	CHIP C 0.010UF K	
C4			CK73FB1E473KTA	CHIP C 0.047UF K	
311	1E	*	E29-1490-04	CONDUCTIVE RUBBER	757C/W
311	1E	*	E29-1490-04	CONDUCTIVE RUBBER	757R/RL
311	1E	*	E29-1491-04	CONDUCTIVE RUBBER	657R/RL
CN1			E59-0818-05	RECTANGULAR PLUG	
R1 ,2			RK73EB2B471J	CHIP R 470 J 1/8W	
R3 -7			RK73EB2B331J	CHIP R 330 J 1/8W	
R8			RK73FB2A104J	CHIP R 100K J 1/10W	
R9			RK73FB2A472J	CHIP R 4.7K J 1/10W	
R10			RK73FB2A473J	CHIP R 47K J 1/10W	
R11			RK73FB2A152J	CHIP R 1.5K J 1/10W	
R12 -16			RK73FB2A102J	CHIP R 1.0K J 1/10W	
R17			RK73FB2A101J	CHIP R 100 J 1/10W	
R18			RK73FB2A473J	CHIP R 47K J 1/10W	
D21 -23			DA227	DIODE	
D24 -28			UZMA6.2	ZENER DIODE	
D29 ,30			DAN202K	DIODE	
IC1			UPD16431A	MOS-IC	
IC2			RS-31N	ANALOGUE IC	
Q1			DTC144EK	DIGITAL TRANSISTOR	
Q1			UN2213	DIGITAL TRANSISTOR	
Q2			DTA114EK	DIGITAL TRANSISTOR	
Q2			UN2111	DIGITAL TRANSISTOR	
CASSETTE MECHA. ASSY (D40-1057-15)					
2	1A		A11-0891-08	SUB CHASSIS ASSY	
3	2B		A11-0892-08	SUB CHASSIS ASSY	
4	1A		D10-2915-08	ARM ASSY	
5	1B		D10-2916-08	ARM ASSY	
6	3A		D10-2917-08	ARM ASSY	
7	1A		J19-4556-08	HOLDER ASSY	
10	1B		D13-1165-08	GEAR ASSY	
11	3A		D13-1166-08	GEAR ASSY	
12	2A		D13-1167-08	GEAR ASSY	
16	1B		D10-2918-08	ARM ASSY (F)	
17	1A		D10-2919-08	ARM ASSY (R)	
18	3A		D01-0606-08	FLYWHEEL ASSY	
19	3A		D01-0607-08	FLYWHEEL ASSY	

E: Europe **K:** North America **M:** Other Areas
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⚠ indicates safety critical components.

KRC-657,757

PARTS LIST

*New Parts
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Ref.No.	Add	New	Psrts No.	Description	Model Name KRC-
21	1B		D13-1215-08	GEAR	
22	3B		D10-2920-08	LEVER	
23	2B		D10-2921-08	LEVER ASSY	
24	1A		D10-2922-08	LEVER	
25	2B		J19-4557-08	BRACKET	
30	2A		B09-0520-08	CAP	
31	1B		D10-2512-13	ARM	
32	2B		D13-1168-08	GEAR	
33	1B		D13-1169-18	GEAR	
34	1B		D13-1170-08	GEAR	
35	1B		D13-1171-08	GEAR	
36	1B		D13-1172-08	GEAR	
37	2B		D13-1173-08	GEAR	
38	3A		D13-1174-08	GEAR	
39	2A		D15-0910-08	PULLEY	
40	3B		D15-0911-08	PULLEY	
42	1A		J19-4302-52	GUIDE	
48	2B		D14-0648-08	ROLLER	
49	2A		D14-0649-08	ROLLER	
50	3B		D14-0650-08	ROLLER	
54	3A		G01-2739-08	TENSION SPRING	
55	2A		G01-2699-08	COMPRESSION SPRING	
57	1B		G01-2700-08	TENSION SPRING	
58	3A		G01-2701-08	TENSION SPRING	
60	1B		G01-2702-08	TORSION SPRING	
61	2B		G01-2703-08	TORSION SPRING	
65	1A		G09-2010-08	FORMED WIRE	
66	3A		D16-0607-08	BELT	
70	3A		J26-4005-08	PRINT BOARD ASSY	
85	3A		N38-2022-45	MACHINE SCREW	
86	1A		N38-2030-46	MACHINE SCREW	
87	1A		N09-4114-08	SCREW	
88	2B		N38-2020-45	MACHINE SCREW	
89	2B		N35-2003-46	BIND. HEAD MACHINE SCREW	
90	2B		N86-2004-46	BIND. HEAD TAPTITE SCREW	
92	1A		N09-4115-08	SCREW	
93	2B		N35-2005-46	BIND. HEAD MACHINE SCREW	
96	3B		N38-2630-45	MACHINE SCREW	
100	2A		N19-2051-08	FLAT WASHER	
101	1B		N19-2052-08	FLAT WASHER	
102	1B		N19-2053-08	FLAT WASHER	
103	2A		N19-2054-08	FLAT WASHER	
104	1A		N19-2055-08	FLAT WASHER	
107	2A		N19-2056-08	FLAT WASHER	
111	1B		N24-3015-41	RETAINING RING	
112	2A		N24-3030-41	RETAINING RING	
113	2B		J26-4006-08	PRINT BOARD ASSY	
114	1A		G02-1185-08	PLATE SPRING	
115	1A		D10-2924-08	ARM	
117	1A		D10-2925-08	LEVER	
118	1A		D10-2926-08	LEVER	
119	1A		G01-2704-08	TORSION SPRING	
137	2B		E40-9343-08	PIN ASSY	
138	2A		G11-1648-08	CUSHION	
139	2A		D21-2193-08	SHAFT ASSY (CAPSTAN)	

(D40-1057-15)

Ref.No.	Add	New	Psrts No.	Description	Model Name KRC-
HD1	1A		T31-0215-08	PLAYBACK HEAD	
M1	2A		T43-0102-08	DC MOTOR (MAIN MOTOR)	
M2	2B		T43-0103-08	DC MOTOR (SUB MOTOR)	
PH1 ,2	3A		T95-0215-08	OPTO ISOLATOR	
PH3	2B		T95-0213-08	PHOTO COUPLER	
S1	2B		S74-0805-08	PUSH SWITCH	
S3	3A		S74-0806-08	LEAF SWITCH	

E: Europe **K:** North America **M:** Other Areas
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⚠ indicates safety critical components.

KRC-657,757

SPECIFICATIONS

Specifications subject to change without notice.

FM tuner section

Frequency range (50 kHz Space).....87.5 MHz – 108.0 MHz
Usable sensitivity (S/N = 26dB).....0.7 µV/75 Ω
Quieting Sensitivity (S/N = 46dB).....1.6 µV/75 Ω
Frequency response (±3.0 dB).....30 Hz – 15 kHz
Signal to Noise ratio (MONO).....68 dB
Selectivity (DIN).....≧ 80 dB (±400 kHz)
Stereo separation (1 kHz).....35 dB

MW tuner section

Frequency range (9 kHz Space).....531 kHz – 1611 kHz
Usable sensitivity (S/N = 20dB).....30 µV

LW tuner section (KRC-657RL,757RL/C/W only)

Frequency range.....153 kHz – 281 kHz
Usable sensitivity (S/N = 20dB).....45 µV

Cassette player section

Tape speed.....4.76 cm/sec.
Wow & Flutter (WRMS).....0.08 %
Frequency response
(120 µs : KRC-657R/RL).....30 Hz – 16 kHz (±3 dB)
(70 µs : KRC-757R/RL/C/W).....30 Hz – 18 kHz (±3 dB)
Separation (1 kHz).....40 dB
Signal to Noise ratio
(Dolby NR OFF).....54 dB
(Dolby B NR ON : KRC-757R/RL/C/W).....63 dB

Audio section

Maximum output power
(KRC-757R/RL/C/W).....35 W × 4
(KRC-657R/RL).....30 W × 4
Output power (DIN 45324, +B=14.4 V)
(KRC-757R/RL/C/W).....25 W × 4
(KRC-657R/RL).....20 W × 4
Tone action
Bass:.....100 Hz ±10 dB
Treble:.....10 kHz ±10 dB
Preout level / load.....1800 mV / 10 kΩ
Preout Impedance.....≦ 600 Ω

General

Operating voltage.....14.4 V (11 – 16 V allowable)
Current consumption.....10 A at Rated power
Installation size (W × H × D).....182 × 53 × 154 mm
Weight.....1.3 kg

KENWOOD follows a policy of continuous advancements in development. For this reason specifications may be changed without notice.

Note:
Component and circuity are subject to modification to insure best operation under differing local conditions. This manual is based on Europe (E) standard, and provides information on regional circuit modification through use of alternate schematic diagrams, and information on regional component variations through use of parts list.

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SERV. 52740

CASSETTE RECEIVER

KRC-956R/RL

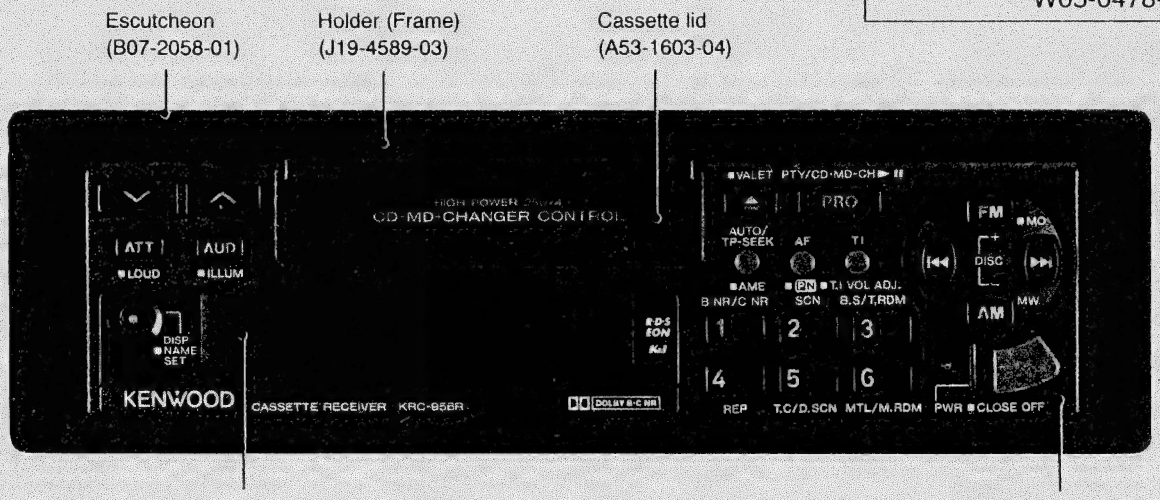
SERVICE MANUAL

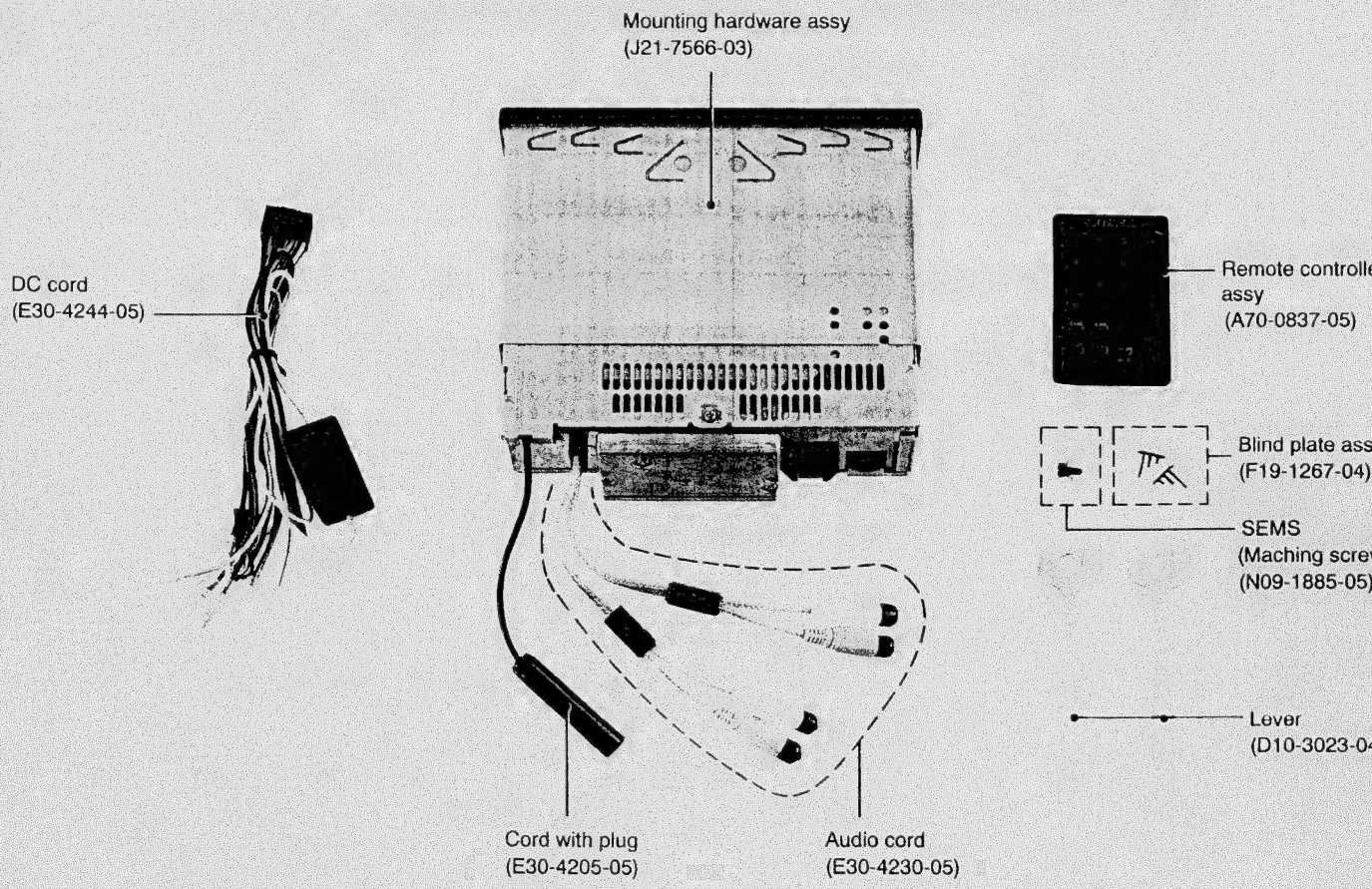
KENWOOD

B51-6844-00 (S) 2297

Photo is KRC-956R

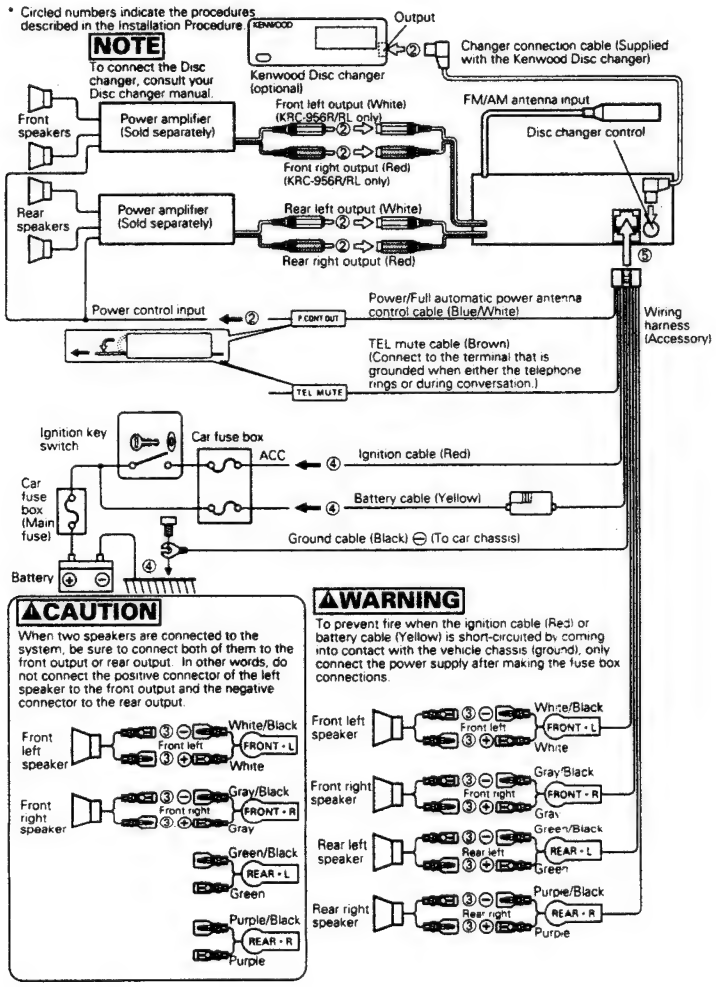
Cassette Mechanism extension cord for service
W05-0477-00(7P)
W05-0478-00(12P)





CONTENTS/CONNECTION

CONNECTION

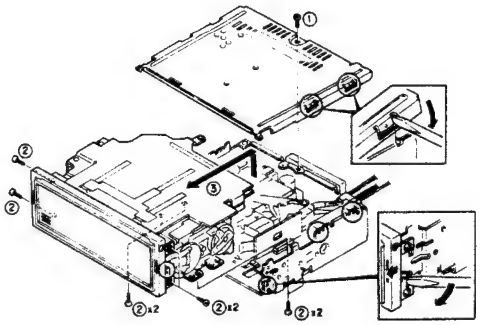


DISASSEMBLY FOR REPAIR

Disassembly in case the control panel is stored inside the set

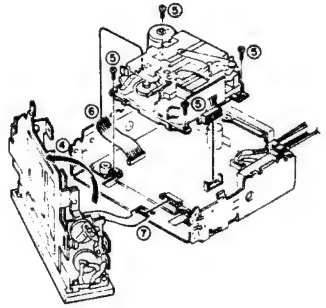
1 Removing the shutter and storage mechanism ass'y

1. Remove the screw (①) and remove the top panel.
2. Remove the 8 screws (②) and slide out the unit by lifting it slightly (③).



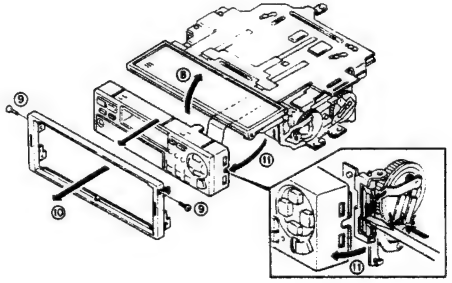
2 Removing the cassette mechanism

1. Stand the shutter and storage mechanism ass'y (④).
2. Remove the 4 screws (⑤) and lift the cassette mechanism.
3. Disconnect the flexible wire (⑥).
4. Remove the flexible board (⑦) and take out the cove and storage mechanism ass'y.



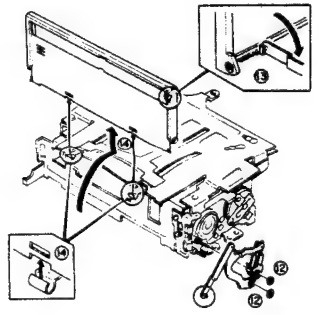
3 Removing the control panel

1. Open the shutter (⑧), remove the 2 screws (⑨) and pull out the frame (⑩).
2. Insert a flat-blade screwdriver into the right side of the control panel to unlock the control panel by pushing the control panel holder (⑪), and pull out the control panel.



4 Removing the shutter

1. Remove the 2 washers (⑫) and remove the arm ass'y.
2. Open the arm ass'y by 90 degrees and pull it out of the shutter frame (⑬).
3. Flap open the shutter upward and disengage it from the claws (⑭).

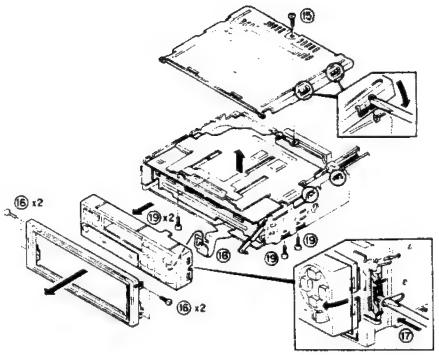


DISASSEMBLY FOR REPAIR

Disassembly in case the control panel is exposed outside the set

1 Removing the control panel and storage mechanism ass'y

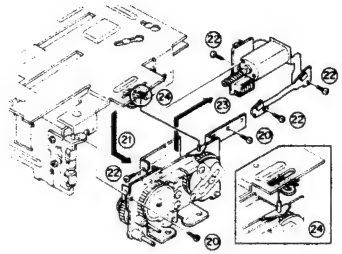
1. Remove the screw (⑮) and remove the top panel.
2. Remove the 4 screws (⑯) and remove the frame.
3. Insert a flat-blade screwdriver into the right side of the control panel (hole on the chassis) to unlock the control panel by pushing the control panel holder (⑰).
4. Separate the flexible board (⑱) from the control panel.
5. Remove the 4 screws (⑲) and remove the storage mechanism ass'y.



Removing the motor ass'y

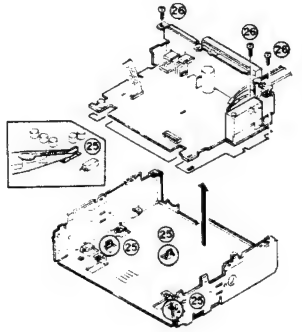
1. Remove the 2 screws (⑳) and remove the motor and gear unit as if sliding them downward (㉑).
2. Remove the 5 screws (㉒) and remove the motor ass'y (㉓).

* Before assembling the motor and gear unit, be sure to inset the pins into the arm hole, between springs and into the hole on the chassis (㉔).



Removing the Main PCB unit

1. Straighten the 3 claws using a pair of pliers (㉕).
2. Remove the 3 screws (㉖) and remove the Main unit.



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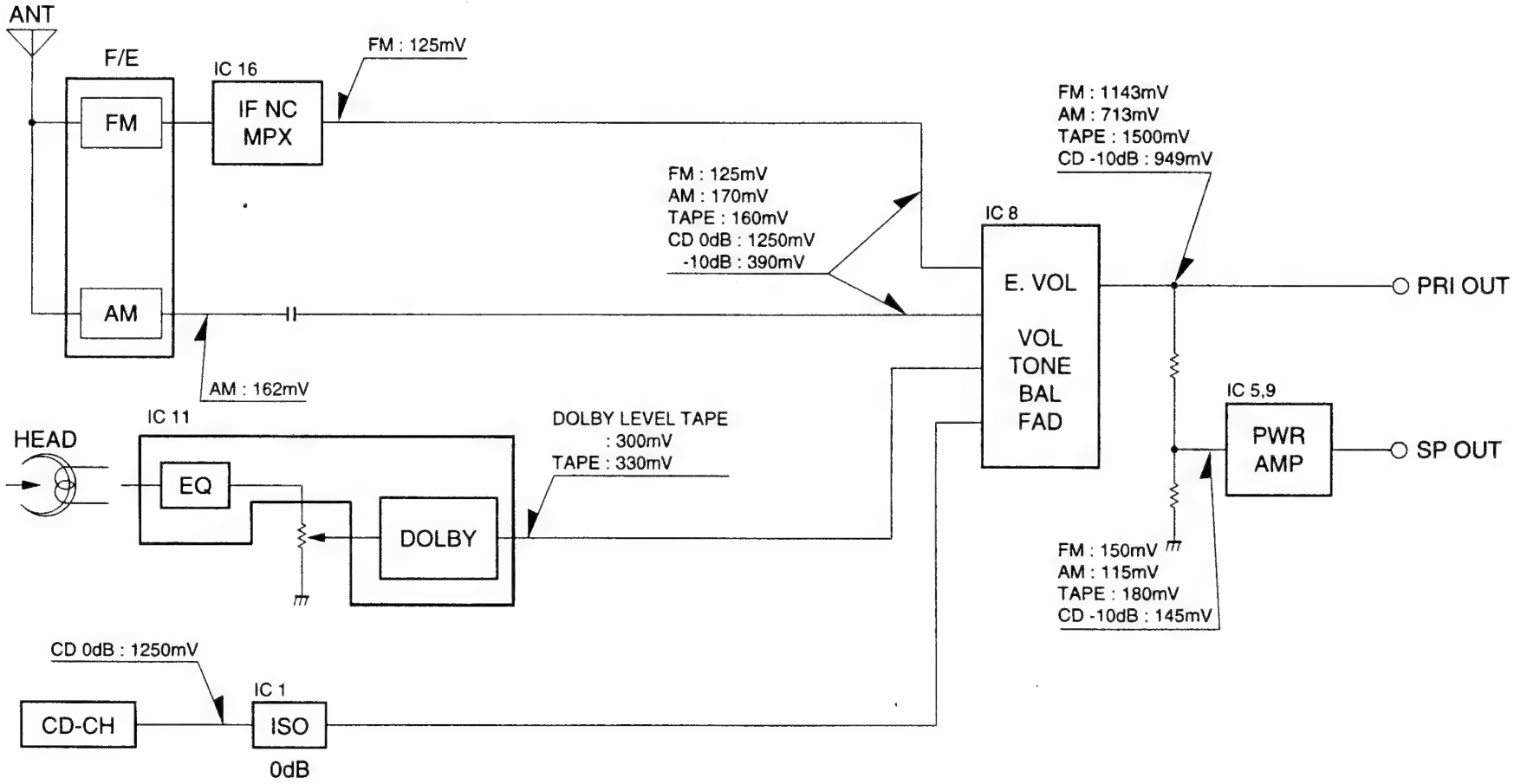
LEVEL DIAGRAM



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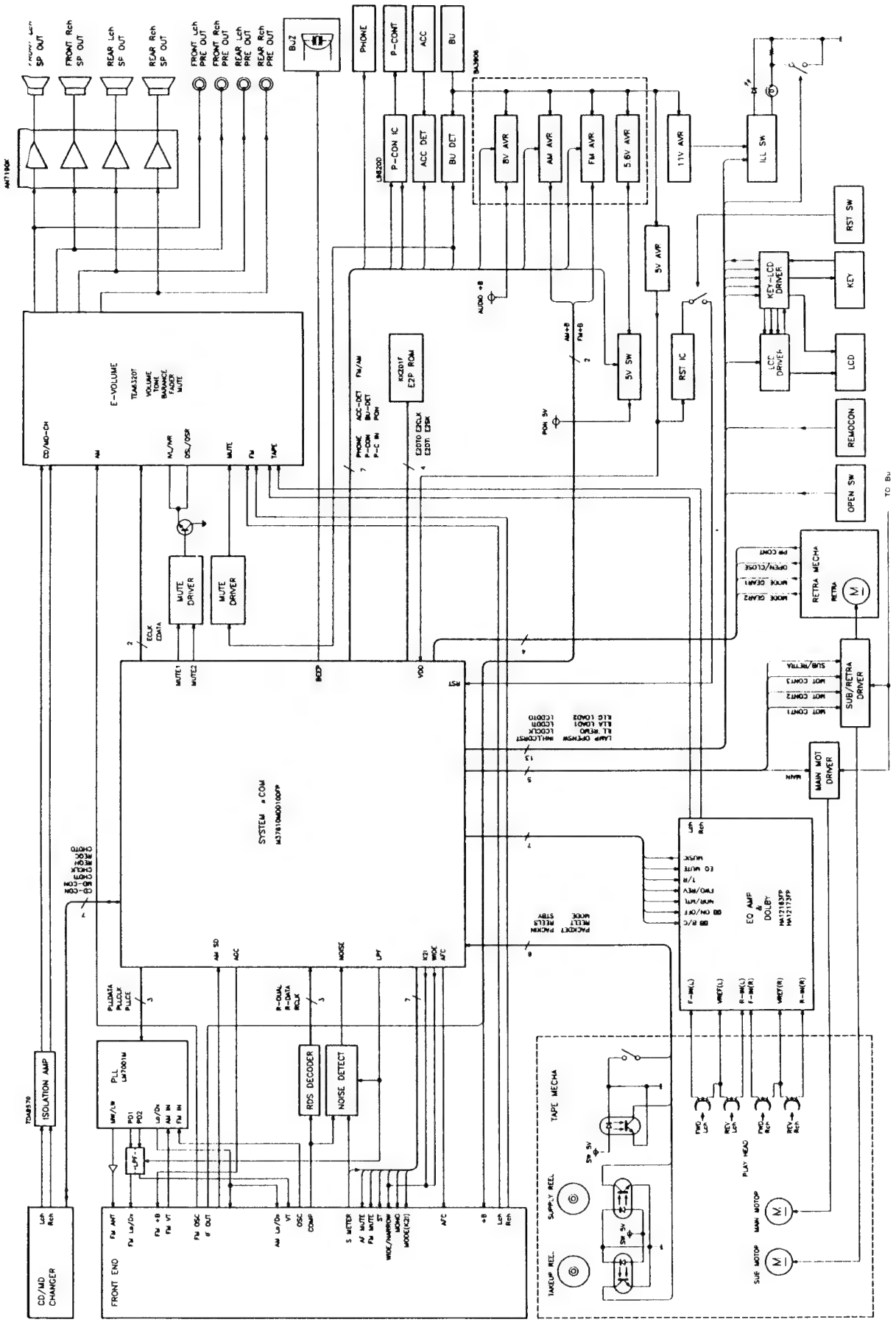
BLOCK DIAGRAM



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CIRCUIT DESCRIPTION

Synthesizer unit (X14-5302-XX)

Component	Name	Purpose, Function	Operation, Condition, Compatibility
IC1	TDA8579T-T	Isolation Amp	For CD-CH, MD-CH
IC2	BA3906-V4	Multi power supply	+5.6 V +8 V
IC3	KKZ01F	Code security data memory	
IC4	L9820D013TR	P-CON Supply	
IC5	AN7190K	Power amplifier	
IC6	S-80740AN-D4	Reset IC	
IC7	M37610MDD100FP	Master μ-COM	
IC8	TEA6320T	Electronic volume	
IC9	AN7190K	Power amplifier	
IC10	SAA6579T	RDS demodulator	
IC11	HA12173FP	Tape EQ and dolby NR	
IC12	BA6238A	Sub motor diriver	
IC13	TC4W66F	CMOS analog switch	For L.P.F
IC14	NJM4565M	Noise amplifier	For Noise Detector
IC15	LM7001M	PLL IC	PLL for FM/AM tuner
IC16	KKC04	IF/NC/MPX	Kal
IC17	TC4S66F	CMOS analog switch	For AF MUTE
IC18	TA75S393F	Comparator	During Kal operation, switches the adjacent interference ditection sensitivity by detecting over-modulation
Q1	DTC124EK/XDC124EK	Beep drive	
Q2	DTC144EK/XDC144EK	Power on SW	
Q3	DTC124EK/XDC124EK	ILL +B SW	
Q4	DTA114EK	ILL +B SW	
Q5	2SB1443	Main motor drive	
Q6	DTC114EK	Motor driver SW	
Q7	DTA124EK/XDA124EK	STBY SW	For BA3906
Q8	2SB1184	ILL +B Regulator	
Q9	2SC2412K	ILL +B Regulator	
Q10	2SA1559(R)	P-on 5 V driver	
Q11	2SD1760	VDD 5 V driver	
Q12	2SB1326	ILL Green SW	
Q13	DTC114EK	High voltage detect	
Q14	DTC124EK/XDC124EK	ILL Green SW	
Q15	DTA124EK/XDA124EK	CD-CON SW	
Q16	DTA124EK/XDA124EK	MD-CON SW	
Q17	DTA144EK	TEL MUTE SW	
Q18	2SB1326	ILL Amber SW	
Q19	2SC2412K	Bu detect	
Q20	DTC124EK/XDC124EK	ILL Amber SW	
Q21	DTC124EK/XDC124EK	MD-CON SW	
Q22	DTC144EK/XDC144EK	Mute control SW	
Q23, Q24	2SD2114K	Mute SW	
Q25	2SC2411K(R)	LAMP GND SW	
Q26	2SA1037K	Mute driver	

CIRCUIT DESCRIPTION

Synthesizer unit (X14-5302-XX)

Component	Name	Purpose, Function	Operation, Condition, Compatibility
Q27	DTC144EK/XDC144EK	RST SW	
Q28	DTC144EK/XDC144EK	T-ADV Circuit time constant SW	
Q29	DTA144EK	T-ADV Circuit time constant SW	
Q30	DTC124EK/XDC124EK	Regulator control SW for Sub motor	
Q31	DTA124EK/XDA124EK	Regulator control SW for Sub motor	
Q32	2SB1565	Regulator for sub motor	
Q33	2SC2412K	Regulator for sub motor	
Q34	DTC124EK/XDC124EK	Voltage controler for sub motor driver IC	
Q35	2SC2412K	Noise detect driver	
Q36	DTC114TK	Time constant SW for Noise detector	
Q37	DTA124EK/XDA124EK	Time constant SW for Noise detector	
Q38	DTC144EK/XDC144EK	Control SW for IC13	
Q39	2SA1037K	+B Supply for L.P.F	
Q40	2SK536	AM L.P.F	
Q41	2SK536	FM L.P.F	
Q42	2SC2412K	CRSC drive	
Q43	DTC144EK/XDC144EK	FM MONO SW	
Q44	DTC124EK/XDC124EK	FM LO/DX SW	
Q45	DTA124EK/XDA124EK	MW/LW SW	
Q46	2SC2412K	FM S-Meter Buff	
Q47, Q48	2SC2413K	IF AMP	
Q49	DTC114TK	AFC control	
Q50	DTA144EK	AFC control	
Q51, Q52	2SC2412K	FM composite Buff	
Q53	DTC144WK	E-VOL MUTE control	
Q54	DTC144EK/XDC144EK	E-VOL MUTE control	
Q55	DTA144EK	LO.S SW	
Q56	DTC144EK/XDC144EK	AM AGC SW	
Q57	DTC124EK/XDC124EK	K_2I control	
Q58	DTC124EK/XDC124EK	AF MUTE SW	
Q60	DTC144EK/XDC144EK	FM VT inhivite	During AM
Q61	DTC144EK/XDC144EK	K_2I WIDE control	During TEST MODE

Switch unit (X25-7312-72)

Component	Name	Purpose, Function	Operation, Condition, Compatibility
IC1	LC75852E	LCD Driver with key scan	
IC2	LC75821E	LCD Driver	
IC3	RS-31N	Remote controller sensor	
Q1	DTA144EK	Panel detection SW	
Q2	DTC144EK/XDC144EK	Panel detection SW	
Q3	DTC144EK/XDC144EK	Remote controller 5V SW	
Q4	DTA114EK	Remote controller 5V SW	
Q5	DTA144EK	RST SW	

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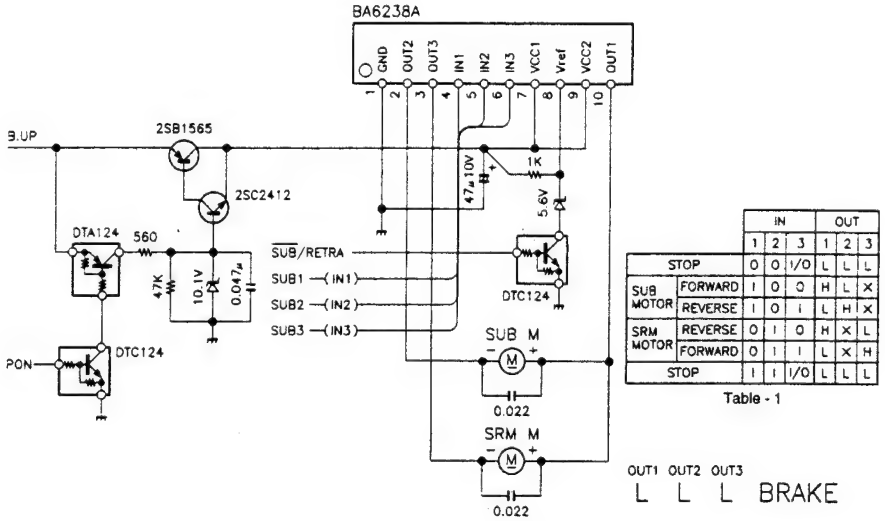
Circuit Operation Description

● Synthesizer Unit (X14-5302-XX)

Sub SRM motor driver

The operations of the C cassette sub-motor and SRM motor are switched by a single driver circuit, the circuit diagram of which is shown below.



		IN			OUT		
		1	2	3	1	2	3
STOP		0	0	I/O	L	L	L
SUB MOTOR	FORWARD	I	0	0	H	L	X
	REVERSE	I	0	I	L	H	X
SRM MOTOR	REVERSE	0	I	0	H	X	L
	FORWARD	0	I	I	L	X	H
STOP		I	I	I/O	L	L	L

Table - 1

Sub-motor outputs OUT1,2 and 3 are controlled by controlling IN1,2 and 3 of the BA6238A as shown in Table-1. For example, if IN1=H, IN2=L and IN3=L, OUT1=1, OUT2=L, OUT3=OPEN so the sub-motor rotates in the forward (loading) direction.

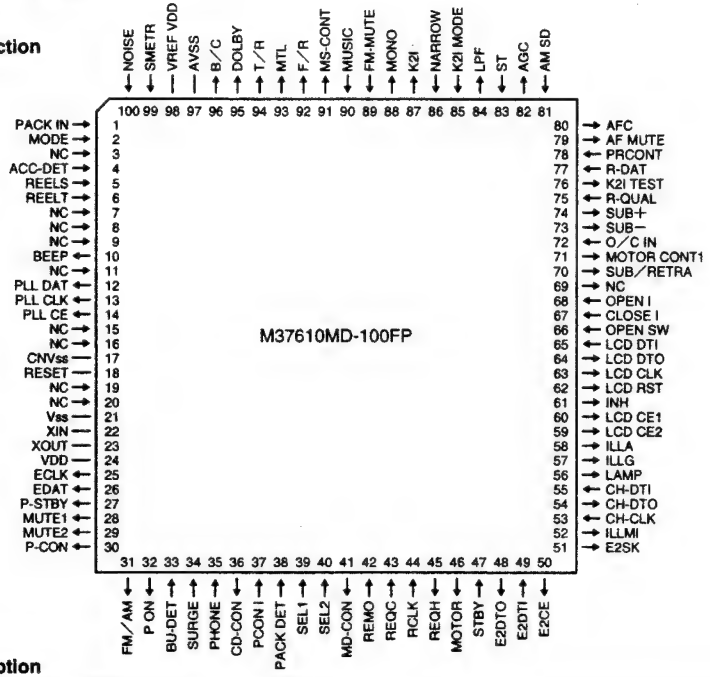
With the SRM motor, the forward rotation moves the guide upward and opens or close the shutter, and the reverse rotation moves the guide downward.

The output voltage is controlled by voltage Vref, and 7.5 V with sub-motor operation and 5.0 V with SRM motor operation.

CIRCUIT DESCRIPTION

IC7 : M37610MDD100FP (X14-5302-XX)
Microcomputer

Terminal connection



Terminal Description

No.	Pin Name	I/O	Name	Active	Function	Halt
1	P95	I	PACK IN	H	Cassette pack IN SW. Pack IN = "H".	
2	P94	I	MODE		Cassette mechanism mode pulse detection.	
3	P93	I	NC	H	Not used.	
4	P92	I	ACC-DET	H	ACC ON/OFF input. ON >= 2.5 V.	
5	P91	I	REELS		Cassette mechanism reel pulse (supply reel).	
6	P90	I	REELT		Cassette mechanism reel pulse (take-up reel).	
7	P87	O	NC		Not used.	L
8	P86	O	NC		Not used.	L
9	P85	O	NC		Not used.	L
10	P84	O	BEEP		Beep output.	L
11	P83	O	NC		Not used.	L
12	P82	O	PLL DTA		PLL data output.	L
13	P81	O	PLL CLK		PLL clock output.	L
14	P80	O	PLL CE		PLL CE output.	L
15	PB3	O	NC		Not used	L
16	PB2	O	NC		Not used	L
17	CNVSS	I	NC		Not used.	
18	RESET	I	RST	L	Reset terminal.	L
19	PB1	O	NC		Not used.	L
20	PB0	O	NC		Not used.	L
21	VSS		GND			
22	XIN		XIN		Oscillator connection terminal.	
23	XOUT		XOUT		Oscillator connection terminal.	
24	VCC		VDD			

KRC-956R/RL

CIRCUIT DESCRIPTION

No.	Pin Name	I/O	Name	Active	Function	Halt
25	P77	O	ECLK		E2PROM clock.	L
26	P76	O	EDAT		E2PROM data.	L
27	P75	O	P-STBY		Power IC ON/OFF.	L
28	P74	O	MUTE1	H	Audio muting.	L
29	P73	O	MUTE2	H	Audio muting.	L
30	P72	O	P-CON	H	Power control.	L
31	P71	O	FM /AM		FM /AM band switching.	L
32	P70	O	P-ON	H	Peripheral power control.	L
33	P67	I	BU-DET	L	Back-up detection.	
34	P66	I	SURGE	L	Surge detection.	
35	P65	I	PHONE	H	Phone input.	
36	P64	O	CD-CON	L	Changer control 1.	
37	P63	I	PCON I	H	P-CON IC monitor input.	
38	P62	I	PACK-DET	H	Cassette mechanism pack detection.	
39	P61	I	SEL 1		Destination selection. R: H. RL:L.	
40	P60	I	SEL 2		Destination selection. 956: H. 856: L.	
41	P57	O	MD-CON	H	Changer control 2.	
42	P56	I	REMO		Remote control input.	
43	P55	I	REQC	L	Disc changer communication request.	
44	P54	I	RCLK		Demodulator IC clock input.	
45	P53	O	REQH	L	Disc changer communication request.	
46	P52	O	MOTOR	H	Cassette mechanism motor control.	
47	P51	I	STNBY	H	Cassette mechanism standby position detection.	
48	P50	O	E2DTO		E2PROM data output.	
49	P47	I	E2DTI		E2PROM data input.	
50	P46	O	E2CE		E2PROM CE.	
51	P45	O	E2SK		E2PROM clock.	
52	P44	O	ILLMI	H	Illumination ON/OFF.	
53	P43	I	CH-CLK		Disc changer clock input.	
54	P42	O	CH-DTO		Disc changer data output.	
55	P41	I	CH-DTI		Disc changer data input.	
56	P40	O	LAMP	H	LCD lamp ON/ OFF .	
57	P37	O	ILLG	H	Illumination - green ON/ OFF .	
58	P36	O	ILLA	H	Illumination - amber ON/ OFF .	
59	P35	O	LCD CE2		LCD CE2.	
60	P34	O	LCD CE1		LCD CE1.	
61	P33	O	INH	L	INH control.	L
62	P32	O	LCD RST	L	LCD reset.	H
63	P31	O	LCD CLK		LCD clock output.	L
64	P30	O	LCD DTO		LCD data output.	L
65	P17	I	LCD DTI		LCD data input.	L
66	P16	I	OPEN SW	L	Open SW input.	L
67	P15	I	CLOSE I	H	Storing mechanism gear SW1 input.	L
68	P14	I	OPEN I	H	Storing mechanism gear SW2 input.	L
69	P13	O	NC			
70	P12	O	SUB/RETRA	H	Sub-motor voltage switching.	
71	P11	O	MOTOR CONT 1		Sub-motor output control.	
72	P10	I	O/C IN		Storing mechanism Open/ Close input.	
73	P07	O	MOTOR CONT 2	H	Sub-motor output control.	
74	P06	O	MOTOR CONT 3		Sub-motor output control.	
75	P05	I	R-QUAL		Demodulator IC QUALITN input.	

CIRCUIT DESCRIPTION

No.	Pin Name	I/O	Name	Active	Function		Halt
76	P04	O	Kal TEST	H			
77	P03	I	R-DAT	L	Demodulator IC data input.		
78	P02	I	PRCONT		Storing mechanism detection.	Detected: L.	
79	P01	O	AF MUTE	H	High-speed muting.		
80	P00	O	AFC	H	AFC ON/OFF.		
81	P27	I	AM SD	L	AM station detection.		
82	P26	O	AGC	H	AM auto gain control.		
83	P25	I	ST	L	FM ST input.		
84	P24	O	LPF		LPF ON/OFF.	During Seek: L.	
85	P23	I	Kal MODE		Kal Wide/Narrow input.	WIDE: H. TO: L.	
86	P22	O	NARROW	H	Forced narrow output.		
87	P21	O	Kal		Kal control.	WIDE: H. AUTO: L.	
88	P20	O	MONO	H	FM forced mono output.		
89	PA7	I	FM-MUTE		FM station detection.	Station detected: H.	
90	PA6	I	MUSIC		Music detection.	Music detected: L.	
91	PA5	O	MS-CONT		Music space detection control.	During DPSS: L.	
92	PA4	O	$\overline{F}$ /R		TAPE PLAY direction control.	FWD: L. REV: H.	
93	PA3	O	MTL	H	METAL ON/OFF.		
94	PA2	O	$\overline{T}$ /R (EQMUT)		TAPE audio ON/OFF.	T: L. R: H.	
95	PA1	O	DOLBY	H	DOLBY ON/OFF.		
96	PA0	O	$\overline{B}$ /C		DOLBY B/C switching.	B: L. C: H.	
97	AVSS	I	GND				
98	VREF	I	VDD				
99	P97	I	SMETR		FM field strength input (AD).		
100	P96	I	NOISE		FM noise input (AD).		

How to write security code after E2PROM (KKZ01F) replacement

The security code can be written only after the E2PROM has been changed to an E2PROM with nothing written in it.

a) Code write procedure

1. After turning power ON, switch all sources OFF and press and hold the DISP key for 3 seconds.

CODE - - - -

2. Enter the code using preset keys [1] to [4]. Example for entry of code 1240

[1] · · · · CODE 0- - -
[1] · · · · CODE 1- - -
[2] · · · · CODE 10- -
[2] · · · · CODE 11- -
[2] · · · · CODE 12- -
[3] · · · · CODE 120-
[3] · · · · CODE 121-
[3] · · · · CODE 122-
[3] · · · · CODE 123-
[3] · · · · CODE 124-
[4] · · · · CODE 1240

After entry of 4th digit

3. Press and hold the DISP key for 3 seconds... Now the code entry is complete.
4. Switch ON the RESET switch.

The code can be written with the above procedure. After it, the entire security mode is reset to the initial condition.

- To quit the code write mode in the middle (possible up to step 2), just turn power OFF. The procedure can be restarted from step 1.
- Be always sue to follow the procedure step by step. If you commit an error or if you press and hold the DISP key for 3 seconds before the entire code has been entered, you will not be able to write the code normally.

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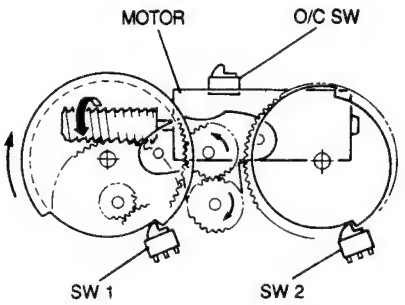
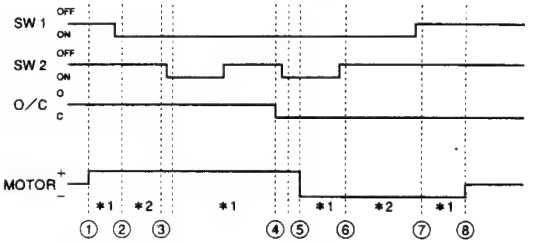
CIRCUIT DESCRIPTION

Retractable mechanism control specification





● Control procedure

① If SW1 is OFF and SW2 is OFF, normal operation is performed.
- The motor is rotated in the forward direction.

If SW1 is OFF and SW2 is ON, the operation is judged to be abnormal and stopped immediately.

If SW1 is ON or the O/C SW cannot be detected, the motor is rotated in the forward direction and processing starts from step ④ below.

② Switching ON of SW1 is confirmed.
- The motor is rotated in the forward direction.

③ The negative going of SW2 is detected ↓.
- The motor is rotated in the forward direction.

④ The negative going of SW2 is detected ↓.
In closing operation, it is also checked if the O/C SW is ON; if it is OFF, the negative going is detected ↓ again.
- The motor is rotated in the forward direction.

In case of initialization or mode error, the O/C SW2 is checked if it is ON to detect ↓ the position every time the negative going of SW2 is detected. If detection is impossible, attempts are repeated 5 times; if detection is still impossible, the protection operation is activated and the procedure is continued to ⑤.
- The motor is rotated in the forward direction for 50 ms.

⑤ The motor is rotated in the reverse direction.

⑥ Switching OFF of SW2 is confirmed.

⑦ Switching OFF of SW1 is confirmed.
- The reverse rotation of the motor is continued for 300 ms.

⑧ The motor is stopped, the O/C SW position is confirmed to check if the OPEN/CLOSE operation has been performed normally.

⑨ Operation completion status.

● Operations in case OPEN/CLOSE request occurs

① Operating ➡ Request pending
② Operating ➡ To processing step ⑦
③ Operating ➡ To processing step ⑥
④ Operating ➡ Request pending
⑤ Operating ➡ Request pending
⑥ Operating ➡ Request pending
⑦ Operating ➡ To processing step ③
⑧ Operating ➡ Request pending
⑨ End status ➡ To processing step ①

● Protection operation

*1 ... During protection monitoring of 5 seconds
*2 ... During protection monitoring of 10 seconds
If the entry of the next step is not detected in the protection monitoring period, abnormality is identified and the following processing starts.

② Operating ➡ To processing step ⑦
③ Operating ➡ To processing step ⑥
④ Operating ➡ To processing step ⑥
⑤ Operating ➡ To processing step ⑥
⑥ Operating ➡ To processing step ⑧
⑦ Operating ➡ To processing step ⑧

* The chattering period of SW1, SW2 and O/C IN is between 20 and 30 ms.

CIRCUIT DESCRIPTION

TEST MODE

1. Setting of Test Mode

(1) To enter test mode, while FM + PRESET 1 SW are pressed, press reset SW. Then all LCD are lit.

The volume, Loudness, Bass, Treble, Balance, Fader are automatically set at the position of max, OFF, center, center, center, center respectively.

(2) To enter FM adjustment mode, press source SW.

(3) To enter AM adjustment mode, press AM SW.

2. Method of test mode quit

At that time do any Power OFF or Acc OFF or pressing the Reset SW.

(※The status such as volume, loudness in test mode is memorized with Power OFF, Acc OFF, pressing the Reset SW.)

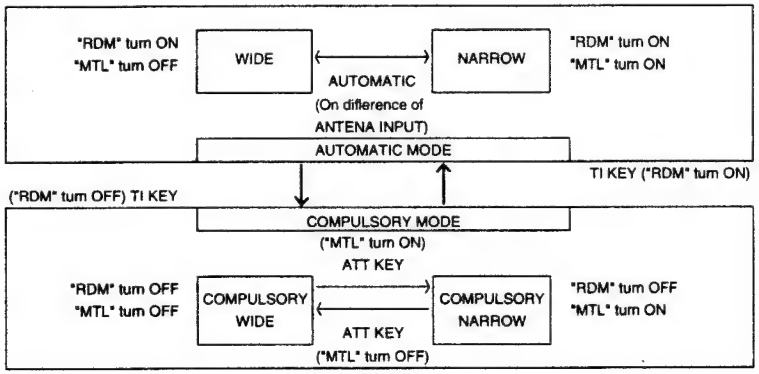
3. Setting of Compulsory Wide, Compulsory Narrow and automatic changing of Wide/Narrow

Press the SOURCE SW in TEST MODE and turn to the TUNER(FM) MODE.

Automatic mode and compulsory mode in changed in the reverse mode by pressing "T1" key for more than 2 second on compulsory mode.

The Compulsory Wide change and the Compulsory Narrow is changed in the reverse mode by pressing "ATT" key.

※ The first stage in TEST MODE is set the automatic mode of WIDE/NARROW.



4. Adjustment

(1) FM SD
Set the 18 dB antenna input. Adjust that the both indicator [1] , [2] of LCD turn ON.

(2) The AM SD need not alignment normally.
Adjust that while AM SW depressed, the indicator [1] , [2] of LCD turn ON at the 35 dB antenna input.

When while press the AM key, the indicator "DISC" of LCD turn ON.

(3) FM MUTE
Adjust that the indicator "NR" of LCD turn ON and OFF at the no modulation and 5dB antenna input.

5. Caution

(1) The key function ATT and T1 are not action in test mode.
(2) The tuner adjustment have to do before mount the cassette mechanism.
And the Azimuth and Dolby adjustment have to do before mount the retractable mechanism.
(3) The tuner adjustment have to be done before inspection of RDS FUNCTION.
(4) The tuner inspection do not have to be done within K2I inspection process. Because the disturbance from neighboring SG is happened and the MIX PAD is used.

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CIRCUIT DESCRIPTION

INITIALIZE CONDITION

E Type FM 98.1 MHz AM 999 kHz BAND RANGE
FM 87.5MHz～108.0MHz
AM MW 531kHz～1611 kHz
LW 153 kHz～281 kHz

Shutter OPEN/CLOSE

Shutter is opened and closed by ACC ON/OFF.
But the Remote control open key (Remote control CA-R4A) or Compulsory open sw must be pressed so as to open shutter on compulsory close conditions.

***CAUTION**

Compulsory CLOSE conditions : Shutter is closed by SOURCE KEY or REMOTE CONTROLLER on power on condition.

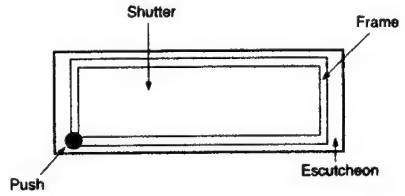
CLOSE conditions : Shutter is closed by ACC OFF on power on condition.

Compulsory OPEN SW : When shutter is closed by close key of REMOTE CONTROLLER or SOURCE KEY, shutter is compulsory opened.

When shutter is closed by ACC OFF, then no sooner ACC ON → OFF than shutter is closed.
The shutter is closed from for 5 seconds buzzer on compulsory close.

KRC-856R/RL : LCD backlight is lighting while going the busser when shutter is closed.

KRC-956R/RL : LCD backlight is lighting OFF.



	SOURCE KEY (Press more than 2 sec)	REMOTE CONTROL OPEN/CLOSE KEY	Compulsory OPEN SW	ACC ON/OFF
① POWER ON Conditions ACC : ON B. U : ON Shutter : OPEN	CLOSE Compulsory Close Conditions to ②	CLOSE Compulsory Close Conditions to ②	—	ON → OFF CLOSE Close Conditions to ③
② Compulsory Close Conditions ACC : ON B. U : ON Shutter : CLOSE	—	OPEN To POWER ON Conditions	OPEN To POWER ON Conditions	ON → OFF → ON Close Conditions
③ Close Conditions ACC : OFF B. U : ON Shutter : CLOSE	—	—	—	OFF → ON OPEN POWER ON Conditions to ①

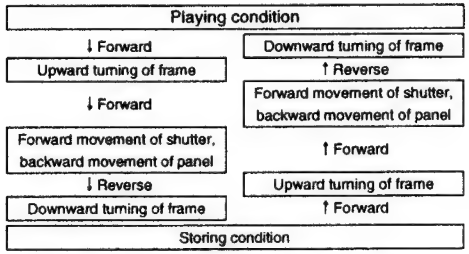
※ When ACC, BU ON at shutter open and reset, shutter is closed and opened.
Also when push the reset SW at POWER ON Conditions, shutter is closed and opened.

MECHANISM DESCRIPTION

SRM (STEALTH RETRACTABLE MECHANISM)

Operating Principle

With the principle of the panel storing operation of this receiver, when the frame turns toward the by about 90 degrees, the shutter inside the receiver set moves forward into the frame and the panel moves backward at the same time.
Later, together with the shutter which has moved inside the frame, the frame turns downward by 90 degrees so the panel is stored inside the receiver set.
The operation from the storing condition to the playing condition of the receiver is opposite to the panel storing operation; the frame turns toward the front by about 90 degrees together with the shutter inside it. When the shutter is stored inside the set, the panel moves forward, the frame turns downward by about 90 degrees and the receiver enters the playing condition.



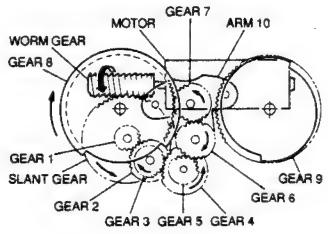
Forward ... Motor rotation in forward direction
Reverse ... Motor rotation in reverse direction

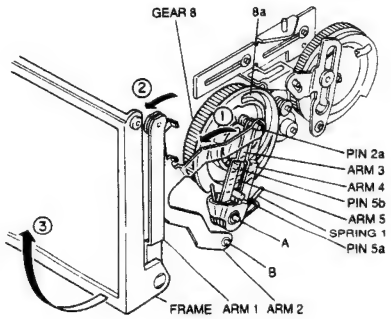
Operation from playing condition to storing condition Upward turning of frame

Upward turning of frame

The motor starts forward rotation when the power is switched OFF. Acc is switched OFF or the OPEN/CLOSE key of the remote control unit is pressed. The motor rotation is transmitted from Slant gear → Gear 1 → Gear 2 → Gear 3 → Gear 4 → Gear 5 → Gear 6 → Gear 7 → Gear 8, and Gear 8 rotates in the clockwise direction.

When Arm 5 inside Cam groove 8a of Gear 8 is rotated around Shaft A by Pin 5b on the back side of Arm 5 (①), Pin 5a on the front side of Arm 5 rotates Arm 3 (①).
As Arm 3 is coupled with Am 5 by Spring 1, Arm 4 is also rotated by Arm 3 (①). This makes Arm 4 push Pin 2a of Arm 2, and Arm 2 rotates around Shaft B (②).
And the force of Arm 2 pushes the frame via Arm 1.





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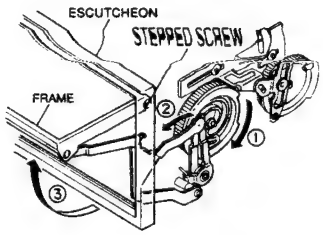
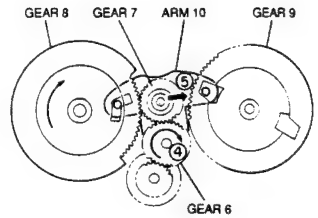
MECHANISM DESCRIPTION

The frame is turned upward by about 90 degrees centered around the stepped screw attached on the escutcheon.
After the frame starts to turn (③), it contacts the escutcheon and stops turning.
Cam groove 8a of Gear 8 has an overstroke so that the frame is pushed upward by the force of Spring 1.



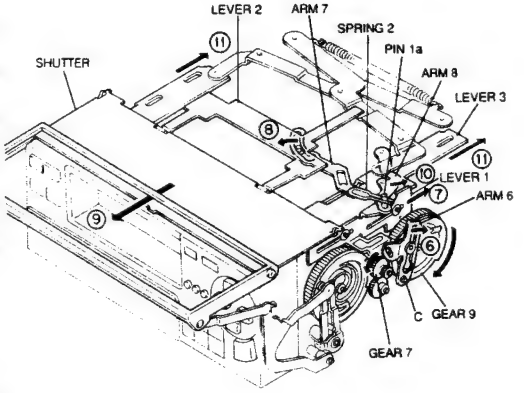
Rotation of Arm 10

Arm 10 is subjected to the friction torque from the force of the spring above Gear 7, and the rotation of Gear 6 (④) causes Arm 10 a turning force in the same direction as the rotation (⑤).
The turning force applied to Arm 10 is in the direction to move it toward Gear 9, but a guide groove restricting the action of Arm 10 is provided on the back side of Gear 8. And Gear 7 is meshed with Gear 8.
When Gear 8 has been rotated by Gear 7 until the restriction cancellation position, Arm 10 starts to rotate (⑤), and Gear 7 transmits force from Gear 8 to Gear 9.



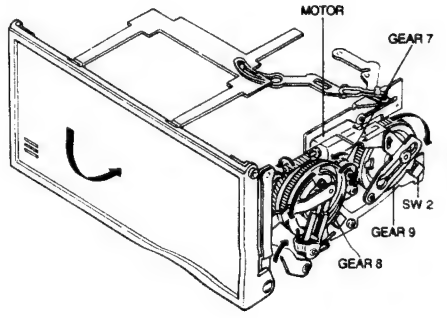
Forward movement of shutter and backward movement of control panel

When Gear 9 is rotated clockwise by the rotation of Gear 7, Arm 6 rotates around Shaft C (⑥).
The rotation of Arm 6 (⑥) causes Lever 1 to move backward (⑦).
When Pin 1a of Lever 1 moves backward, it pushes the right side of Spring 2 attached on Arm 7, thereby rotating Arm 7 (⑧) and by means of Lever 2 moving the shutter forward (⑨).
When Pin 1a of Lever 1 moves backward, it causes Arm 8 to rotate (⑩) and Lever 3 to move backward (⑪), thereby moving the control panel which is fixed to it also backward.



Downward turning of frame

The operations above take place in the period Gear 9 rotates by a half turn. SW2 is switched from ON to OFF in this period, and it is switched again to ON after the completion of the half turn.
When SW2 is ON, the microcomputers issues an instruction so the motor starts reverse rotation in 0.5 ms after it.
As a result, Gear 7 rotates in the reverse direction and generates an opposite friction torque, which rotates Arm 10 toward Gear 8 so Gear 7 transmits force from Gear 9 to Gear 8.
After this, both the arms and gears act in the opposite directions to the previous operations, and the frame and the shutter inside it together turn downward.



MECHANISM DESCRIPTION

Operations from storing condition to playing condition

Upward turning of frame

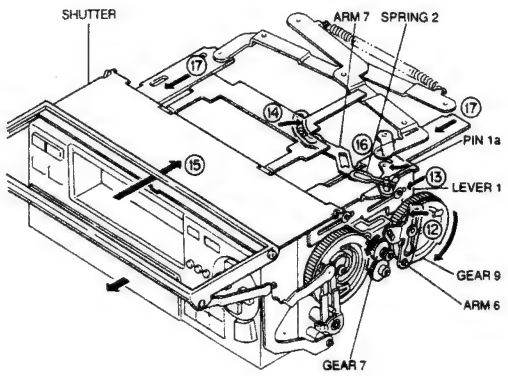
The motor starts forward rotation when the Acc is switched OFF, the OPEN/CLOSE key of the remote control unit is pressed or the bottom left pat of the shutter is pushed.
The subsequent operations are the same as the frame opening operations described in the previous section, and the result is the upward turning of the frame by about 90.

Rotation of Arm 10

Same operations as described in the pervious section.

Backward movement of shutter and forward movement of control panel

When Gear 9 is rotated clockwise by the rotation of Gear 7, Arm 6 rotates around Shaft C (⑫).
The rotation of Arm 6 (⑫) causes Lever 1 to move backward (⑬).
When Pin 1a of Lever 1 moves forward, it pushes the left side of Spring 2 attached on Arm 7, thereby rotating Arm 7 (⑭)and by means of Lever 2 moving the shutter backward (⑮).
When Pin 1a of Lever 1 moves forward, it causes Arm 8 to rotate (⑯) and Lever 3 to move forward (⑰), thereby moving the control panel which is fixed to it also forward.

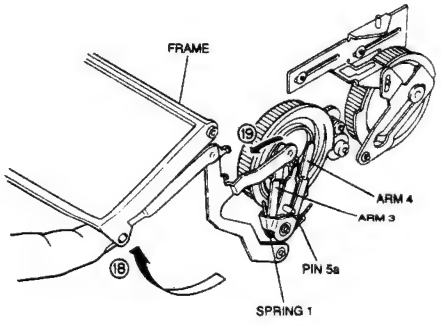


Downward turning of frame

Same operations as described in the pervious section.

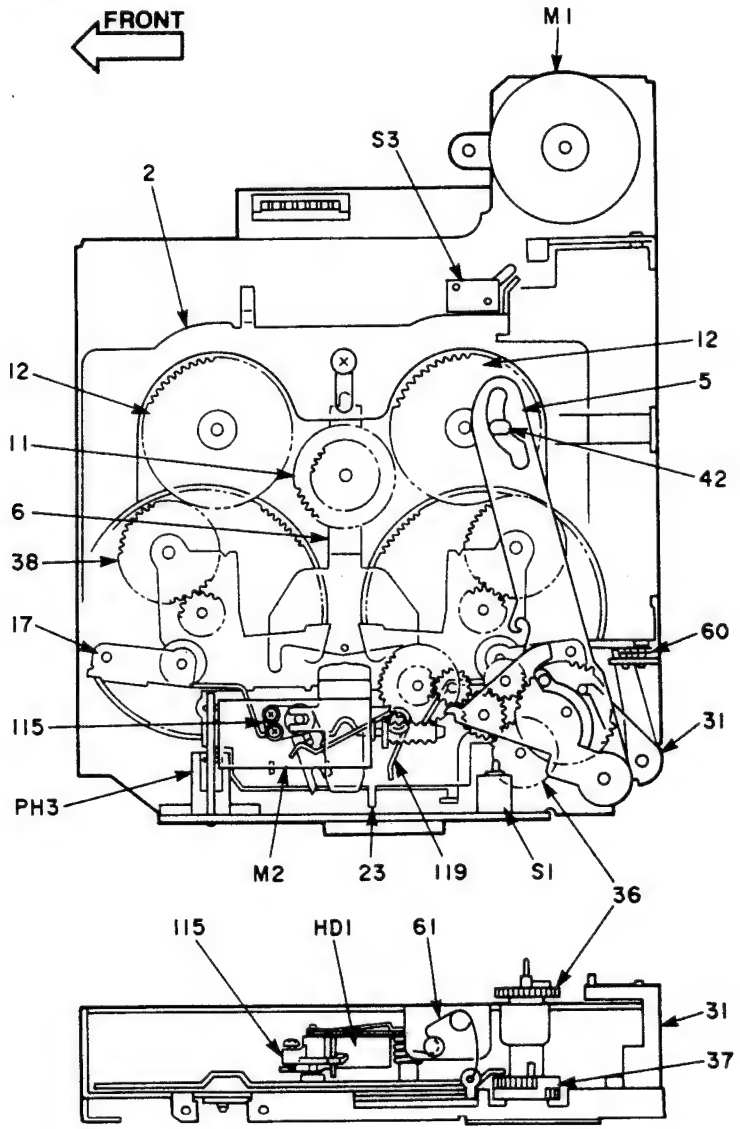
Protection of mechanism

When the frame in the storing condition is forced to turn by pushing it upward with a fingertip, etc. (⑱), the force is applied to the direction which rotates Arm 3 (⑲).
However, as Arm 4 is fixed by Pin 5a, it does not rotate and the force is absorbed by Spring 1.
Similarly, in case the normal turning of the frame in the upward or downward direction is obstructed by any reason, the force is absorbed by Spring 1.



MECHANISM OPERATION DESCRIPTION

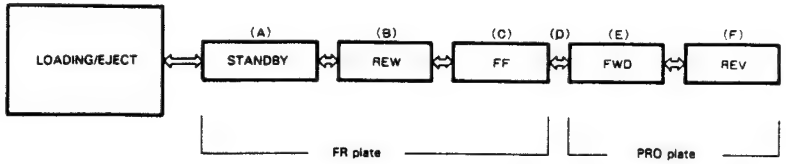
CASSETTE MECHANISM



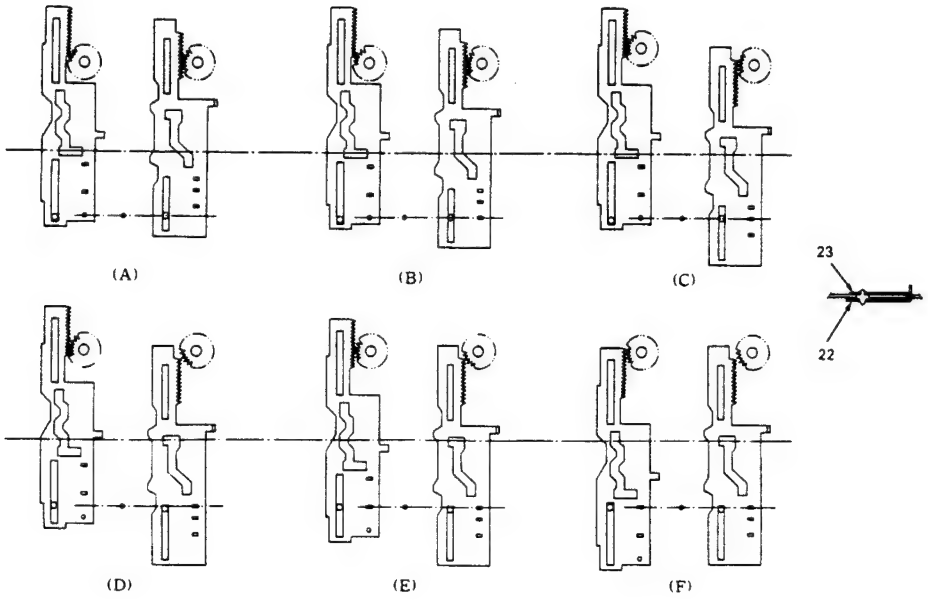
MECHANISM OPERATION DESCRIPTION

Mechanism Operation Modes

Each mode undergoes the following sequence:



Each mode is determined by the positions of the FR and PRO plates.



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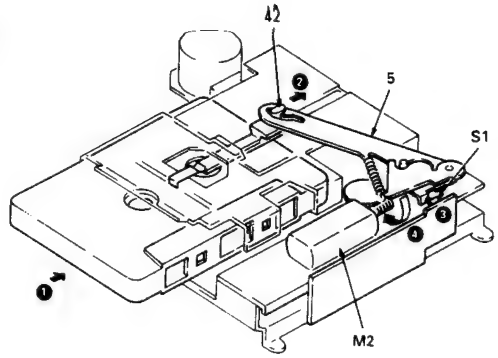
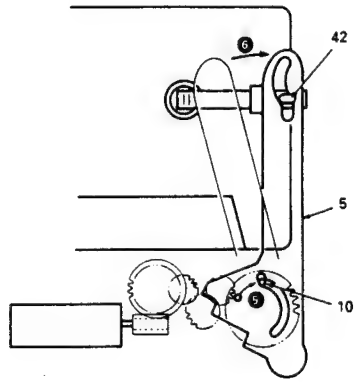
MECHANISM OPERATION DESCRIPTION

1. Loading

When the cassette tape is pushed in (❶), the loading arm (5) moves via the pack slider (42)...(❷). Thus, the pack-in switch (S1) detects this...(❸), and the sub motor (M2) makes normal rotation...(❹).

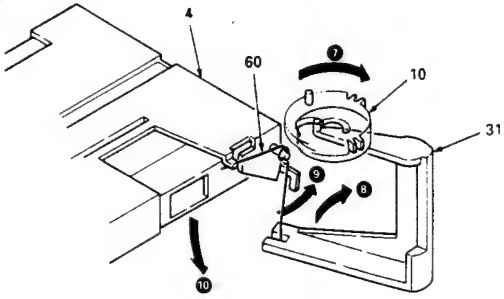


The rotation of the sub motor (M2) causes the load gear (10) to rotate by way of the idle gear...(❺). The load gear (10) provides the rotation of the loading arm (5) by its pin...(❻), to load in the cassette tape.



2. PACK DOWN

When the load gear (10) further rotates (❼), the action arm (31) also rotates (❽) to lower the action plate (4)...(❿), by way of the action plate spring (60)...(❾).

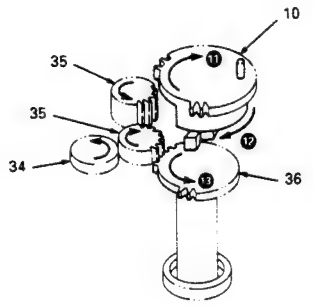


MECHANISM OPERATION DESCRIPTION

3. Change from Load Gear to Mode Gear

When the load gear (10) further more rotates (⑪), the boss under it pushes against the boss of the mode gear (36)...(⑫), so that the mode gear (36) rotates after the shift of its non-toothed section...(⑬).

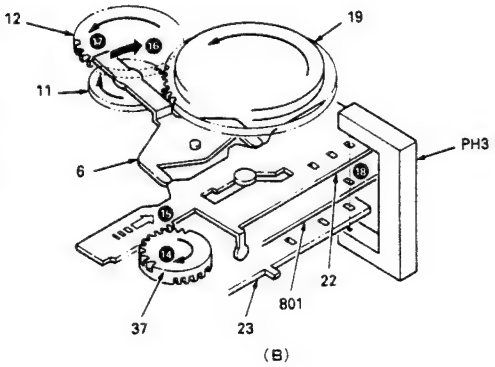
Thus, the load gear (10) stops rotation on account of its non-toothed section coming.



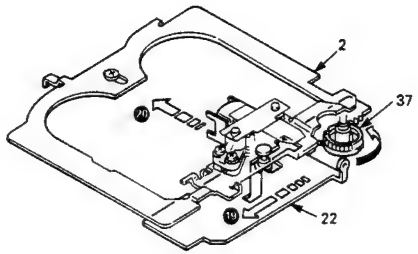
4. REW

When the mode gear (37) rotates (⑭), the FR plate (22) under it moves (⑮). The cam of the FR plate (22) works to rotate the FR arm (6)...(⑯).

Further, the FR arm (6) moves to transmit the rotation of the flywheel (19) to the reel gear (12)...(⑰). At this time, a slot (REW hole) of the FR plate (22) is detected by the mode sensor (PH3)...(⑱), to stop the rotation of the sub motor.



For REW or FF, due to the groove of the FR plate (22)...(⑲), the head plate (2) advances (⑳) so that the head moves to a position at which T-ADV is feasible.

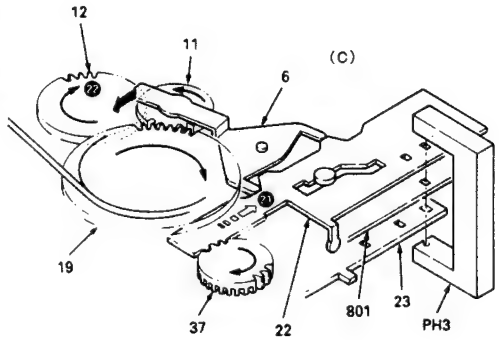


MECHANISM OPERATION DESCRIPTION

5. FF

When the sub motor further rotates, the cam of the FR plate (22) moves (㉑) so that the FR arm (6) is rotated in the reverse direction...(㉒).

Thus, a slot (FF hole) of the FR plate (22) is detected by the mode sensor (PH3) to stop the rotation of the sub motor.

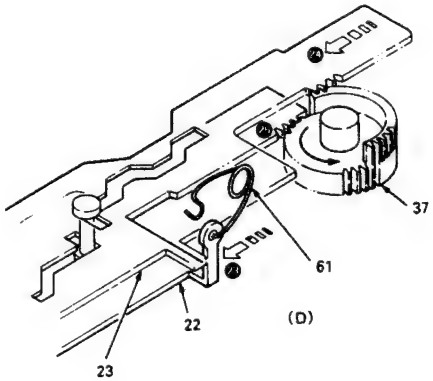


6. Change from FR Plate to PRO Plate

When the sub motor further more rotates, the knob of the FR plate (22) hits against the knob of the PRO plate (23)...(㉓), so that the PRO plate (23) moves.

Thus, the rack of the PRO plate (23) enters into engagement with the mode gear...(㉔). Then, the rack of the FR plate (22) is disengaged from the mode gear because of its non-toothed section coming...(㉕).

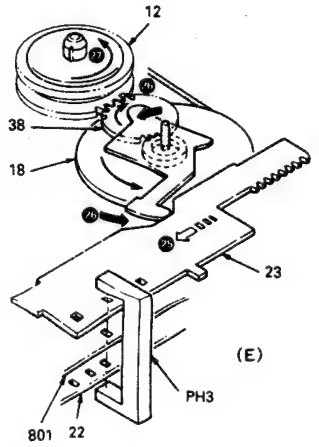
The mode plate spring (61) assists in this operation.



7. FWD PLAY

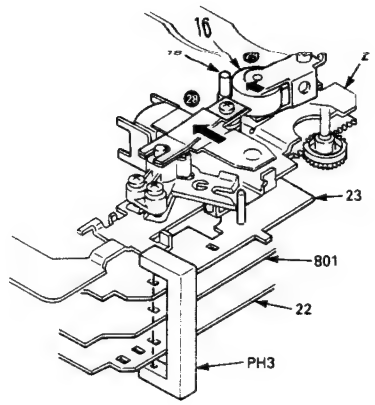
When the PRO plate (23) moves (㉕), the take-up plate F is rotated by the cam of the PRO plate (23) and the take-up gear (38) engages with the reel ass'y (12)...(㉖). The rotation of the flywheel (18) is transmitted to the reel ass'y (12) by way of the take-up gear (38)...(㉗).

Thus, a slot (FWD hole) of the PRO plate (23) is detected by the mode sensor (PH3) to stop the rotation of the sub motor.



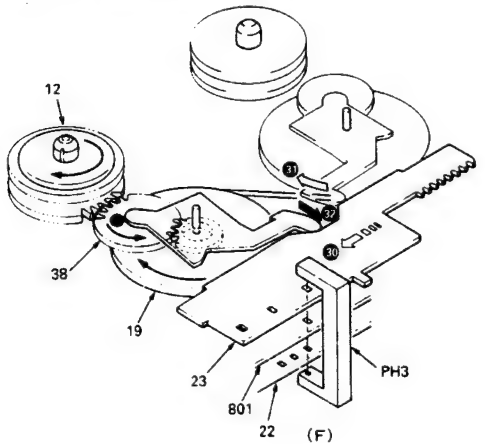
MECHANISM OPERATION DESCRIPTION

The groove of PRO plate (23) serves to advance the head plate (2)...(㉘), to move the head and the pinch roller (16) to their FWD PLAY position. The pinch roller (16) is contacted to the capstan (18) by pressure due to the shift to the take-up plate and the force of the pinch roller spring...(㉙).



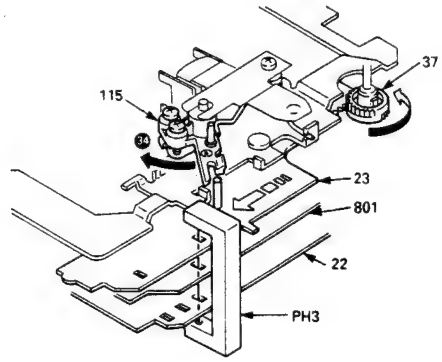
8. REV PLAY

When the PRO plate (23) further moves, the take-up plate F returns by the cam of the PRO plate (23)...(㉛), and the take-up plate R rotates (㉜). The rotation of the flywheel is transmitted to the reel ass'y (12) by way of the take-up gear (38)...(㉝).



The PRO plate (23) further moves, the azimuth arm (115) turns by the pin of PRO plate (㉞).

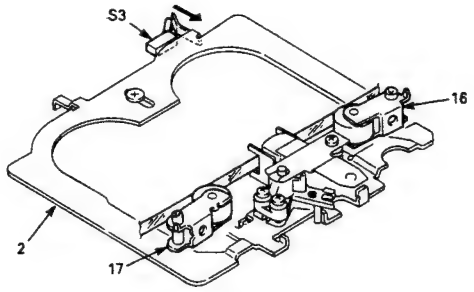
Thus, a slot (REV hole) of the PRO plate (23) is detected by the mode sensor (PH3) to stop the rotation of the sub motor.



MECHANISM OPERATION DESCRIPTION

9. STANDBY (PAUSE)

From a given mode, when the head plate (2) regresses due to the reverse rotation of the sub motor rotates, when the pause switches (S3) acts ("L" to "H") to stop the rotation of the sub motor, the pause mode is entered.



(A)

10. EJECT

When the sub motor is reversely rotated, an operation reverse to the loading operation is performed to eject the cassette tape.

KRC-956R/RL

ADJUSTMENT

Set the controls and switches as follows.

BALANCE	:center position	LOUD	:OFF	T • ADV	:OFF
BASS	:center position	LOCAL	:OFF	AUTO	:OFF
FADER	:center position	DOLBY NR	:OFF		
TREBLE	:center position				

No	ITEM	INPUT SETTINGS	OUTPUT SETTINGS	TUNER (RECEIVER) SETTINGS	ALIGNMENT POINTS	ALIGN FOR	FIG.
FM SECTION							
1	DISCRI-MINATOR	(A) 98.1MHz 0dev 60dB μ (ANT input)	Connect a DC voltmeter to TP2	FM 98.1MHz	T1	0V	(a)
2	SEPARATION (WIDE)	(C) 98.1MHz 1kHz, ± 40kHz dev Pilot: ± 6.0kHz dev Selector: L or R 60dB μ (ANT input)	(B)	FM 98.1MHz	VR6 (W-SEP)	Adjust it so that the crosstalk from L to R and R to L become minimum.	
3	ANRC (WIDE)	(C) 98.1MHz 1kHz, ± 40kHz dev Pilot: ± 6.0kHz dev Selector: L or R 35dB μ (ANT input)	(B)	FM 98.1MHz	VR4 (ANRC)	Separation 10dB	
	After 3 adjustment, measure DC voltage at 35dBμ at TP3 and record. → V35						(b)
4	SOFT MUTE LEVEL	(A) 98.1MHz 1kHz, ± 40kHz dev 60dB μ → No input	(B)	FM 98.1MHz	VR9 (S-MUTE)	Output Noise level -25dB μ (When not add any signal to ANT terminal)	
5	MUTE SENSITIVITY LEVEL	(A) 98.1MHz 0dev 5dB μ (ANT input)	–	FM 98.1MHz	VR3 (MUTE)	Adjust until "NR" of LCD turns from OFF to ON.	
6	SEEK STOP SENSITIVITY LEVEL	(A) 98.1MHz 0 dev 20dB μ (ANT input)	–	FM 98.1MHz	VR5 (S-METER)	Adjust so that the "1 2" indicator in the LCD are lit. Only "2" is lit : Too low Only "1" is lit : Too high	
7	NARROW GAIN	(C) 98.1MHz 1kHz, ± 40kHz dev Pilot: ± 6.0kHz dev Selector: L or R 35dB μ (ANT input)	Connect a DC voltmeter to TP3	FM 98.1MHz	VR7 (N-GAIN)	Same as V35 measured in Wide.	(b)
8	SEPARATION (NARROW)	(C) 98.1MHz 1kHz, ± 40kHz dev Pilot: ± 6.0kHz dev Selector: L or R 60dB μ (ANT input)	(B)	FM 98.1MHz	VR8 (N-SEP)	Adjust it so that the crosstalk from L to R and R to L become minimum	
MW SECTION							
(1)	SEEK STOP SENSITIVITY LEVEL	(D) 999kHz 0% mod 35dB μ (ANT input)	–	MW 999kHz	AM SD VR (F/E)	STOP	
CASSETTE DECK SECTION							
[1]	AZIMUTH	MTT-114 10kHz	(B)	TAPE PLAY	Head Azimuth Screw	Adjust the azimuth for each L ch / R ch or FWD / RVS becomes maximum	(c)
[2]	PLAYBACK LEVEL	MTT-150	Connect an AC voltmeter to TP1	TAPE PLAY	VR1 : Lch VR2 : Rch	300mV	(d)

*Test mode : Press the RESET key while holding the FM and 1 keys depressed. (All of the LCD elements light.)
Then, press the SOURCE key.
To quit : Power OFF.

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ABGLEICH

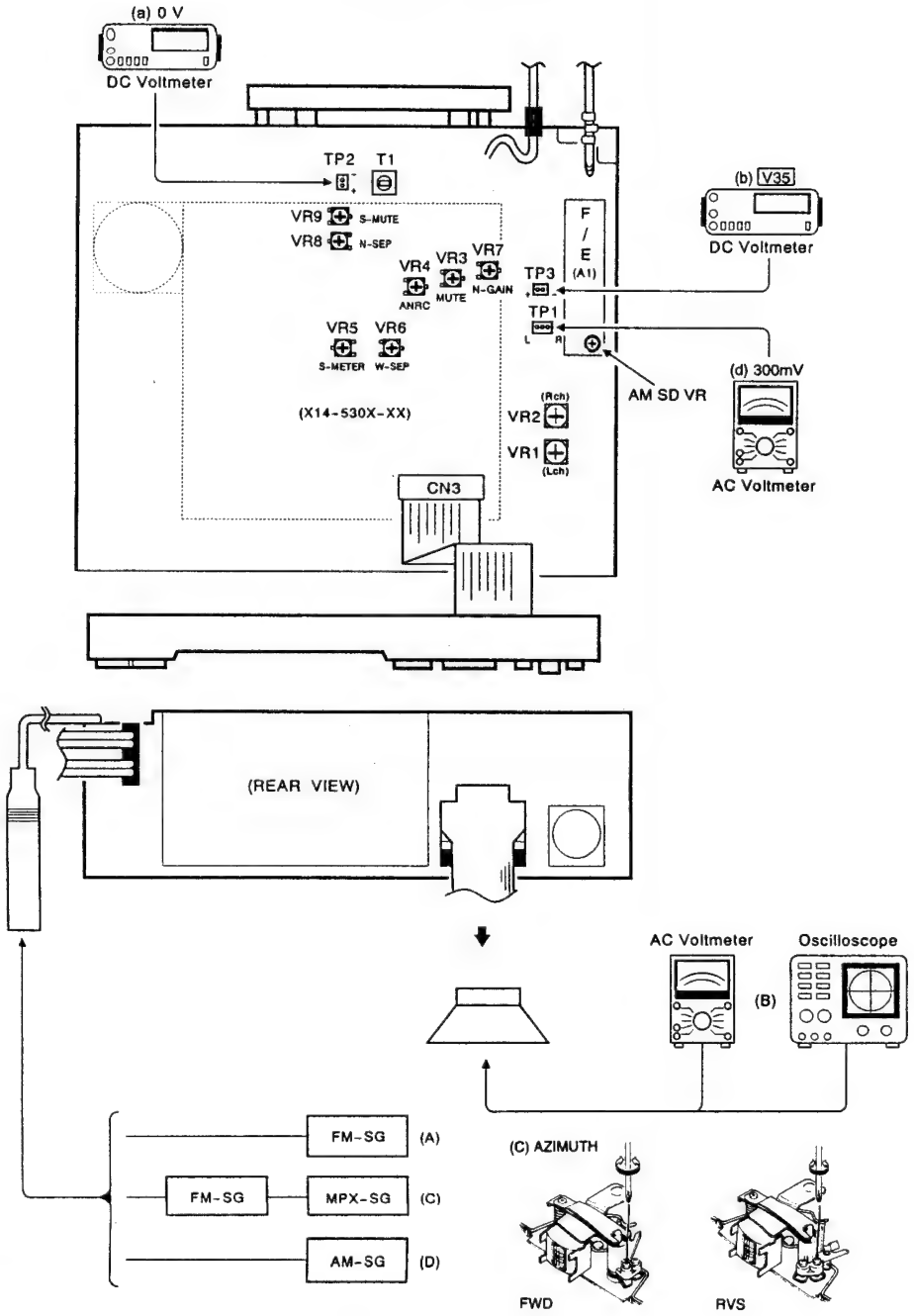
Die Regler und Knöpfe wire folgt einstellen.

BALANCE	:Mittelage	LOUD	:OFF	T・ADV	:OFF
BASS	:Mittelage	LOCAL	:OFF	AUTO	:OFF
FADER	:Mittelage	DOLBY NR	:OFF		
TREBLE	:Mittelage				

NR	GEGENSTAND	EINGANGS EINSTELLUNG	AUSGANGS EINSTELLUNG	TUNER (RECEIVER) EINSTELLUNG	ABGLEICH PUNKTE	ABGLEICHEN FUR	ABB.
UKW-ABTEILUNG							
1	DISKRI-MINATOR	(A) 98.1MHz 0 Hub 60dBμ (ANT-Eingang)	Den Gleichstrom Voltmeter zwischen den beiden Stiften von TP2 anschließen	FM 98.1MHz	T1	0V	(a)
2	STEREO KANAL TRENNUNG (Weit)	(C) 98.1MHz 1kHZ, ±40kHz Hub Pilot: ±6.0kHz Hub Wahler : L or R 60dBμ (ANT-Eingang)	(B)	FM 98.1MHz	VR6 (W-SEP)	So einstellen, daß das Übersprechen von L auf R und von R auf L minimal wird.	
3	ANRC (Weit)	(C) 98.1MHz 1kHZ, ±40kHz Hub Pilot: ±6.0kHz Hub Wahler : L or R 35dBμ (ANT-Eingang)	(B)	FM 98.1MHz	VR4 (ANRC)	Trennung 10dB	
	Nach der 3 Einstellung die Gleichspannung bei 35 dBμ an TP3 messen. → V35						(b)
4	Weiche Dämpfung PEGEL	(A) 98.1MHz 1kHZ, ±40kHz Hub 60dBμ→No Eingang	(B)	FM 98.1MHz	VR9 (S-MUTE)	Ausgangsrauschpegel -25dB (Wenn nicht, ein beliebiges Signal an den ANT-Anschluß anlegen)	
5	Dämpfung-sempfindlichkeit PEGEL	(A) 98.1MHz 0 Hub 5dBμ (ANT-Eingang)	–	FM 98.1MHz	VR3 (MUTE)	Einstellen, bis "NR" des LCD von OFF auf ON schaltet.	
6	SUCHEN HALT PEGEL	(A) 98.1MHz 0 Hub 20dBμ (ANT-Eingang)	–	FM 98.1MHz	VR5 (S-METER)	So einstellen, daß die Anzeige "1" "2" an der LCD leuchtet. Nur "2" leuchtet : zu niedrig Nur "1" leuchtet : zu hoch	
7	SCHMAL-VERSTARKUNG	(C) 98.1MHz 1kHZ, ±40kHz Hub Pilot: ±6.0kHz Hub Wahler : L or R 35dBμ (ANT-Eingang)	Den Gleichstrom Voltmeter zwischen den beiden Stiften von TP3 anschließen	FM 98.1MHz	VR7 (N-GAIN)	Gleich wie V35 gemessen in Weit.	(b)
8	STEREO KANAL TRENNUNG (Schmal)	(C) 98.1MHz 1kHZ, ±40kHz Hub Pilot: ±6.0kHz Hub Wahler : L or R 60dBμ (ANT-Eingang)	(B)	FM 98.1MHz	VR8 (N-SEP)	So einstellen, daß das Übersprechen von L auf R und von R auf L minimal wird.	
MW-ABTEILUNG							
(1)	SUCHEN HALT PEGEL	(D) 999kHz 0% mod 35dBμ (ANT-Eingang)	–	MW 999kHz	AM SD VR (F/E)	HALT	
CASSETTEN-DECK-ABTEILUNG							
[1]	AZIMUTH	MTT-114 10kHz	(B)	Bandwiedergabe	Kopfazimuts-chraube	So einstellen, daß das Azimuth für jeweils L-CH/R-CH oder FWD/RVS maximal wird.	(c)
[2]	WIDERGABE PEGEL	MTT-150	Einen wechsel-spannungsmesser zwischen zu TP1 anschließen.	Bandwiedergabe	VR1(L) VR2(R)	300mV	(d)

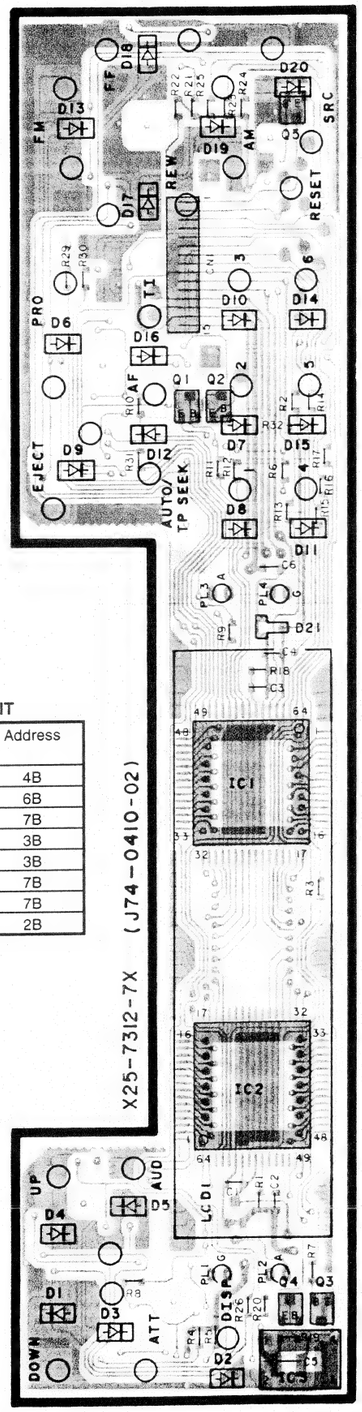
*Testmodus : Die Taste während die Tasten FM und 1 gedrückt gehalten werden.
(Alle Elemente des LCD leuchten.)
Dann die Taste RESET drücken.

ADJUSTMENT



PC BOARD (Component side view)

SWITCH UNIT (X25-7312-72)

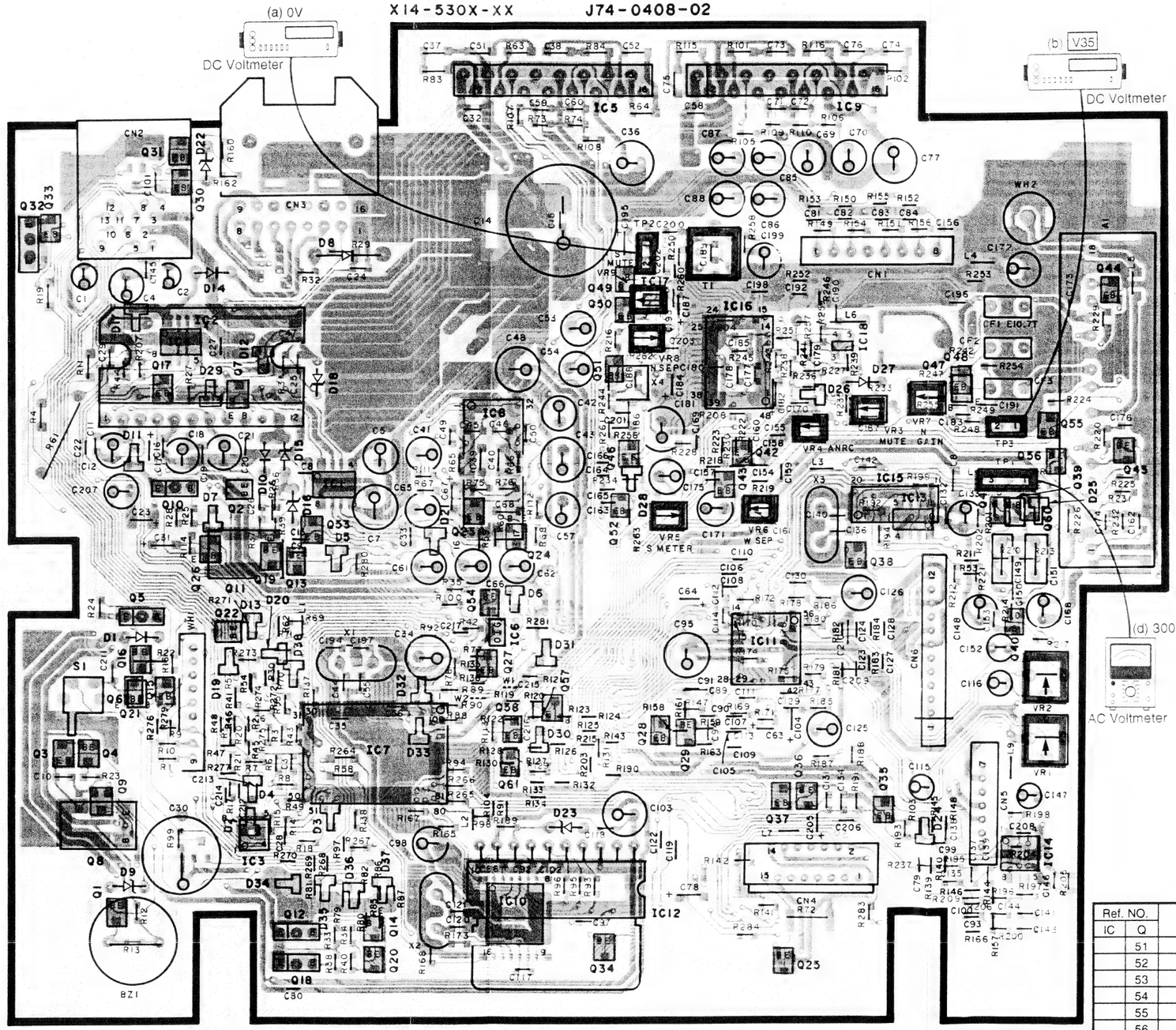


SWITCH UNIT

Ref. NO.		Address
IC	Q	
1		4B
2		6B
3		7B
	1	3B
	2	3B
	3	7B
	4	7B
	5	2B

SYNTHESIZER UNIT(X14-5302-XX) -74 : KRC-956R, -75 : KRC-956RL)

X14-530X-XX J74-0408-02



SYNTHESIZER UNIT

Ref. NO.		Address
IC	Q	
1		4E
2		3D
3		6D
4		3D
5		2F
6		5E
7		5E
8		4E
9		2G
10		6E
11		5G
12		6F
13		4H
14		6H
15		4H
16		3G
17		3F
18		3G
	1	6C
	2	4D
	3	5C
	4	5C
	5	4D
	6	5D
	7	3D
	8	6C
	9	5C
	10	4D
	11	5D
	12	6D
	13	4D
	14	6E
	15	5D
	16	5D
	17	3D
	18	6D
	19	4D
	20	6E
	21	5D
	22	5D
	23	4E
	24	4F
	25	6G
	26	4D
	27	5E
	28	5F
	29	5F
	30	2D
	31	2D
	32	2C
	33	2C
	34	6F
	35	5G
	36	5G
	37	5G
	38	4G
	39	4H
	40	5H
	41	4H
	42	4G
	43	4G
	44	3I
	45	4H
	46	4F
	47	3H
	48	3H
	49	3F
	50	3F

Ref. NO.		Address
IC	Q	
	51	3F
	52	4F
	53	4D
	54	4E
	55	3H
	56	4H
	57	5F
	58	5E
	60	4H
	61	5E

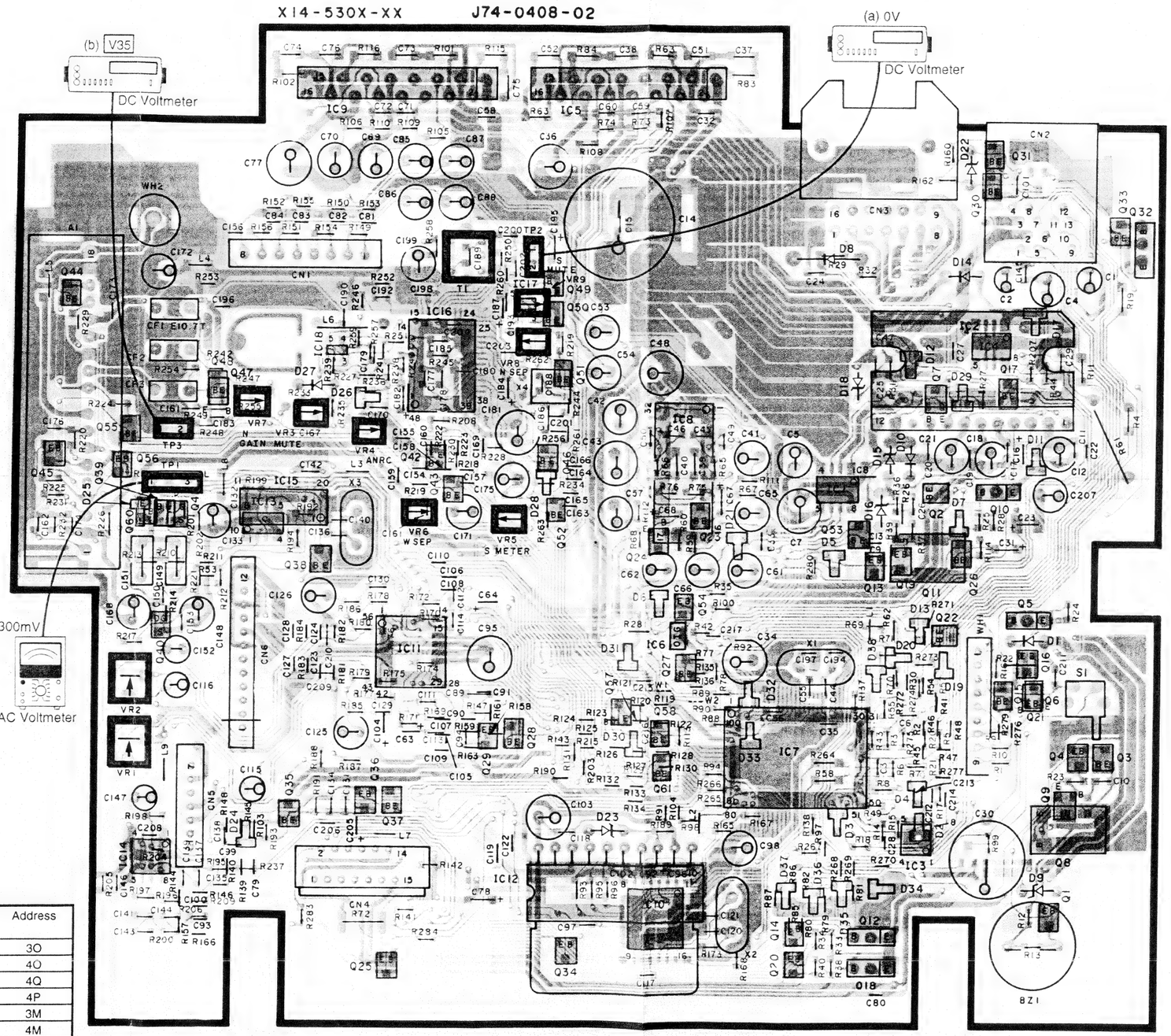
Refer to the schematic diagram for the values of resistors and capacitors.

PC BOARD (Foil side view)

SYNTHESIZER UNIT

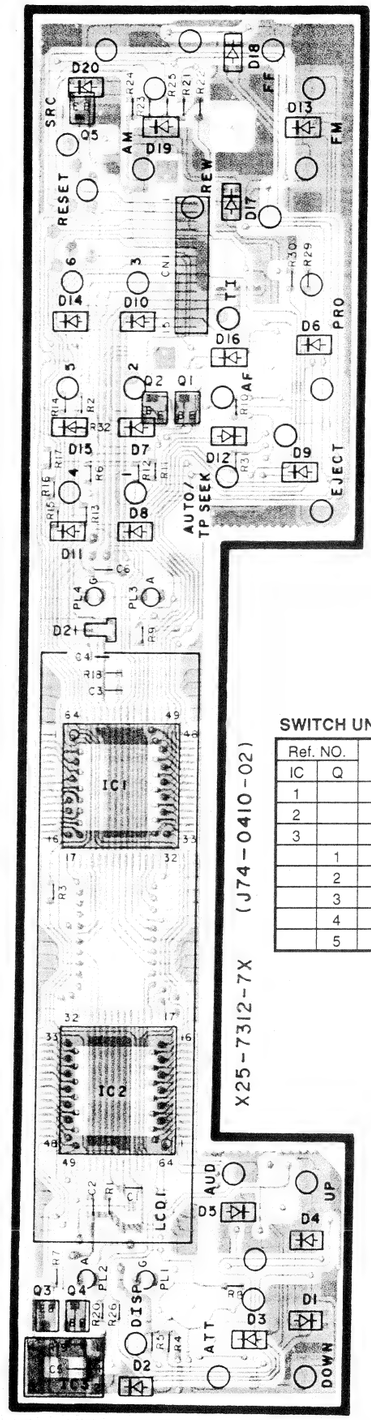
Ref. NO.		Address
IC	Q	
1		4P
2		3Q
3		6Q
4		3Q
5		2O
6		5P
7		5P
8		4P
9		2N
10		6P
11		5N
12		6O
13		4M
14		6M
15		4M
16		3N
17		3O
18		3N
	1	6R
	2	4Q
	3	5R
	4	5R
	5	5Q
	6	5Q
	7	3Q
	8	6R
	9	5R
	10	4Q
	11	4Q
	12	6Q
	13	4Q
	14	6P
	15	5Q
	16	5Q
	17	3Q
	18	6Q
	19	4Q
	20	6P
	21	5Q
	22	5Q
	23	4P
	24	4O
	25	6N
	26	4Q
	27	5P
	28	5O
	29	5O
	30	2Q
	31	2Q
	32	2R
	33	2R
	34	6O
	35	6M
	36	5N
	37	5N
	38	4N
	39	4M
	40	5M
	41	4M
	42	4N
	43	4N
	44	3L
	45	4L
	46	4O
	47	3M
	48	3M
	49	3O
	50	3O

SYNTHESIZER UNIT(X14-5302-XX) -74 : KRC-956R, -75 : KRC-956RL)



Ref. NO.		Address
IC	Q	
	51	3O
	52	4O
	53	4Q
	54	4P
	55	3M
	56	4M
	57	5O
	58	5O
	60	4M
	61	5O

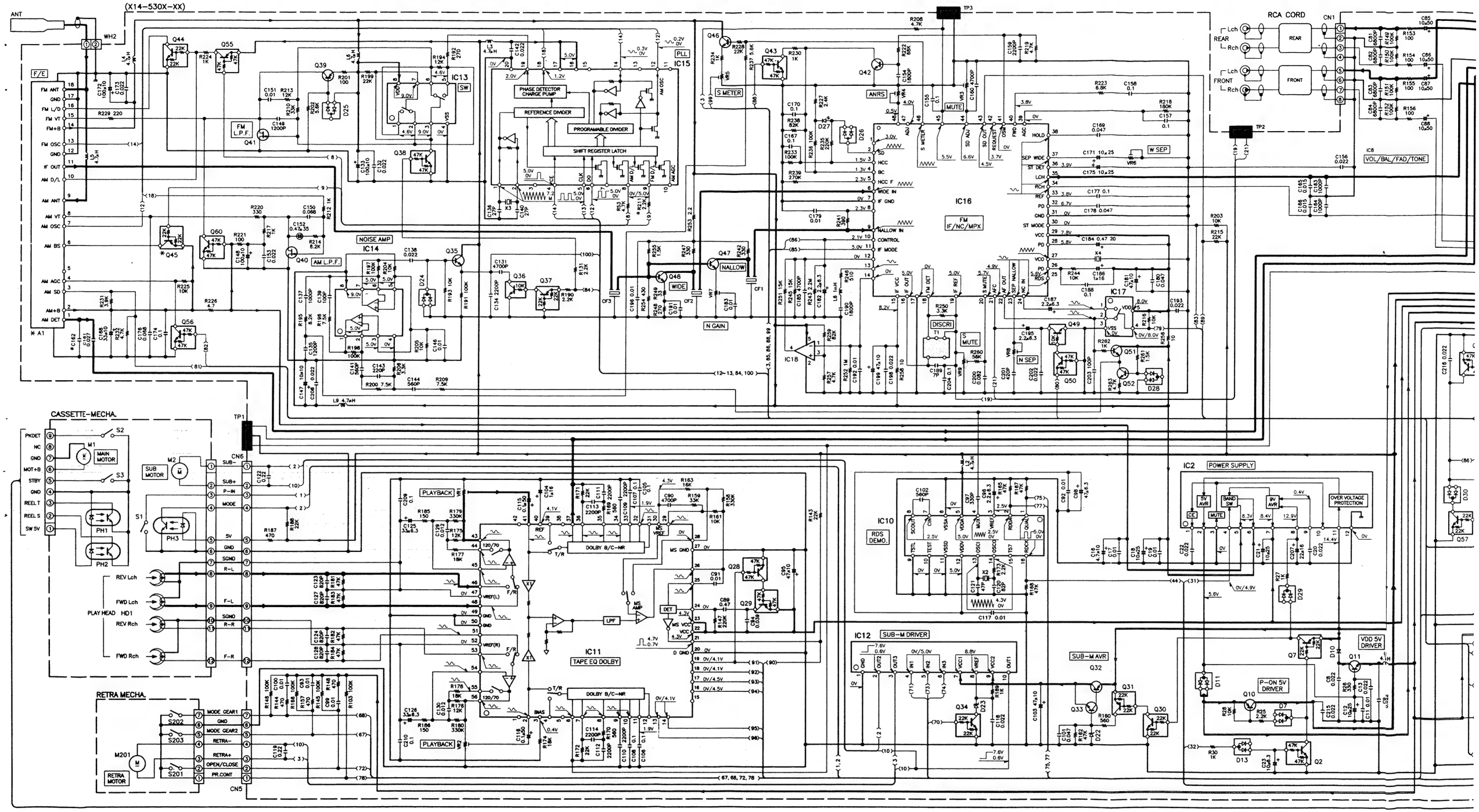
SWITCH UNIT (X25-7312-72)



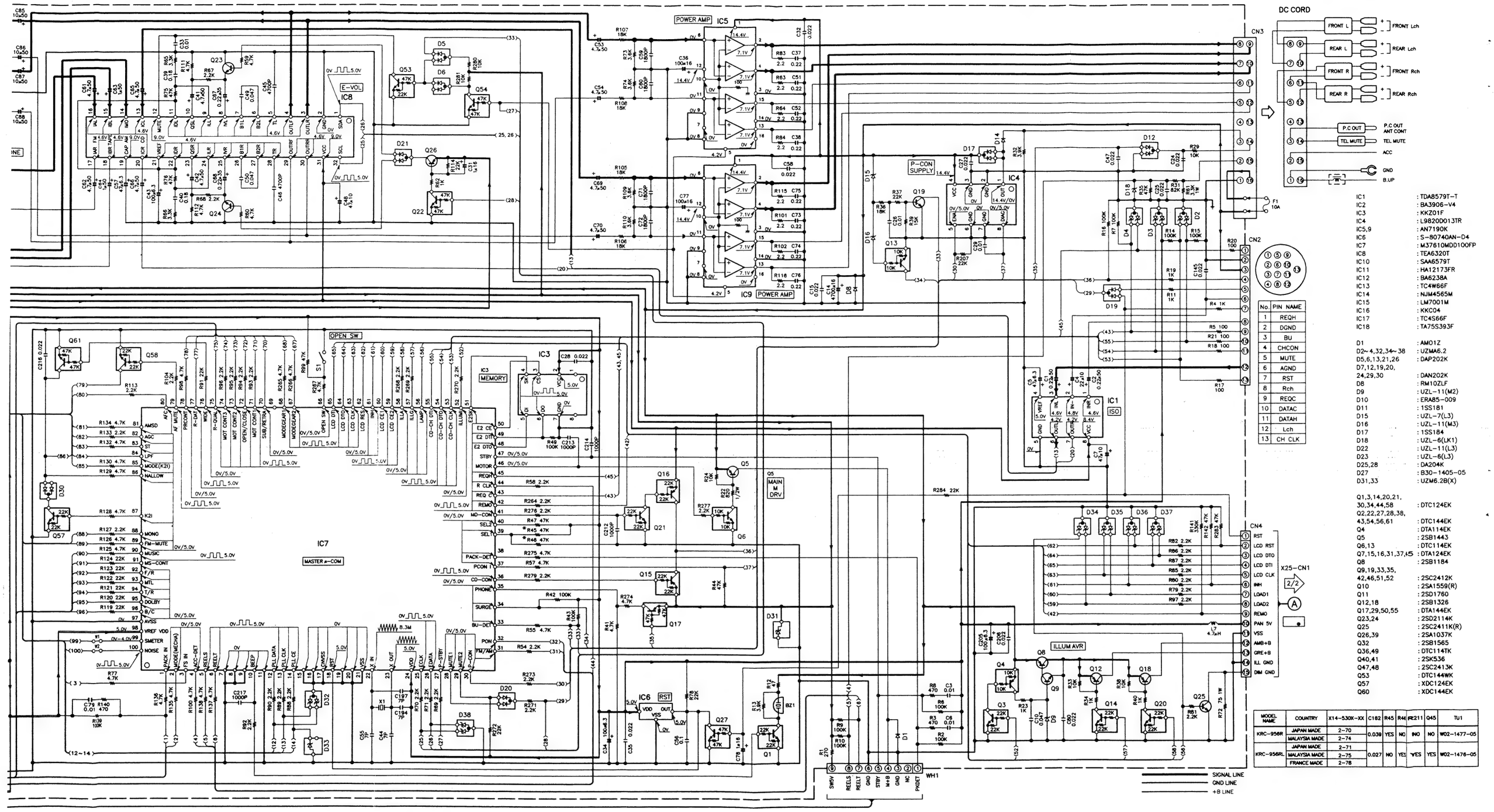
SWITCH UNIT

Ref. NO.		Address
IC	Q	
1		4S
2		6S
3		7S
	1	3S
	2	3S
	3	7S
	4	7S
	5	2S

Refer to the schematic diagram for the values of resistors and capacitors.



DC voltages are as measured with a high impedance voltmeter. Values may vary slightly due to variations between individual instruments or/and units.



No.	PIN NAME
1	REQH
2	DGND
3	BU
4	CHCON
5	MUTE
6	AGND
7	RST
8	Rch
9	REQC
10	DATAC
11	DATAH
12	Lch
13	CH CLK

IC1	: TDA8579T-T
IC2	: BA3906-V4
IC3	: KKZ01F
IC4	: L9820D013TR
IC5,9	: AN7190K
IC6	: S-80740AN-D4
IC7	: M37610MDD100FP
IC8	: TEA6320T
IC10	: SAA6579T
IC11	: HA12173FR
IC12	: BA6238A
IC13	: TC4W66F
IC14	: NJM4565M
IC15	: LM7001M
IC16	: KKC04
IC17	: TC4S66F
IC18	: TA75S393F
D1	: AM01Z
D2~4,32,34~38	: UZM6.2
D5,6,13,21,26	: DAP202K
D7,12,19,20, 24,29,30	: DAN202K
D8	: RM10ZLF
D9	: UZL-11(M2)
D10	: ERA85-009
D11	: 1SS181
D15	: UZL-7(L3)
D16	: UZL-11(M3)
D17	: 1SS184
D18	: UZL-6(LK1)
D22	: UZL-11(L3)
D23	: UZL-6(L3)
D25,28	: DA204K
D27	: B30-1405-05
D31,33	: UZM6.2B(X)
Q1,3,14,20,21, 30,34,44,58	: DTC124EK
Q2,22,27,28,38, 43,54,56,61	: DTC144EK
Q4	: DTA114EK
Q5	: 2SB1443
Q6,13	: DTC114EK
Q7,15,16,31,37,45	: DTA124EK
Q8	: 2SB1184
Q9,19,33,35, 42,46,51,52	: 2SC2412K
Q10	: 2SA1559(R)
Q11	: 2SD1760
Q12,18	: 2SB1326
Q17,29,50,55	: DTA144EK
Q23,24	: 2SD2114K
Q25	: 2SC2411K(R)
Q26,39	: 2SA1037K
Q32	: 2SB1565
Q36,49	: DTC114TK
Q40,41	: 2SK536
Q47,48	: 2SC2413K
Q53	: DTC144WK
Q57	: XDC124EK
Q60	: XDC144EK

MODEL NAME	COUNTRY	X14-530X-XX	C182	R45	R44	R211	Q45	TU1
KRC-956R	JAPAN MADE	2-70	0.039	YES	NO	INO	NO	W02-1477-05
	MALAYSIA MADE	2-74						
KRC-956RL	JAPAN MADE	2-71	0.027	NO	YES	YES	YES	W02-1476-05
	MALAYSIA MADE	2-75						
	FRANCE MADE	2-78						

voltmeter.
dual instru-

Les tensions c.c. doivent être mesurées avec un voltmètre à haute impédance. Les valeurs peuvent différer légèrement du fait des variations inhérentes aux appareils et aux instruments de mesure individuels.

Die angegebenen Gleichspannungswerte wurden mit einem hochohmigen Spannungsmesser gemessen. Dabei schwanken die Meßwerte aufgrund von Unterschieden zwischen einzelnen Instrumenten oder Geräten u. U. geringfügig.

CAUTION: For continued safety, replace safety critical components only with manufacturer's recommended parts (refer to parts list). ⚠ indicates safety critical components. To reduce the risk of electric shock, leakage-current or resistance measurements shall be carried out (exposed parts are acceptably insulated from the supply circuit) before the appliance is returned to the customer.

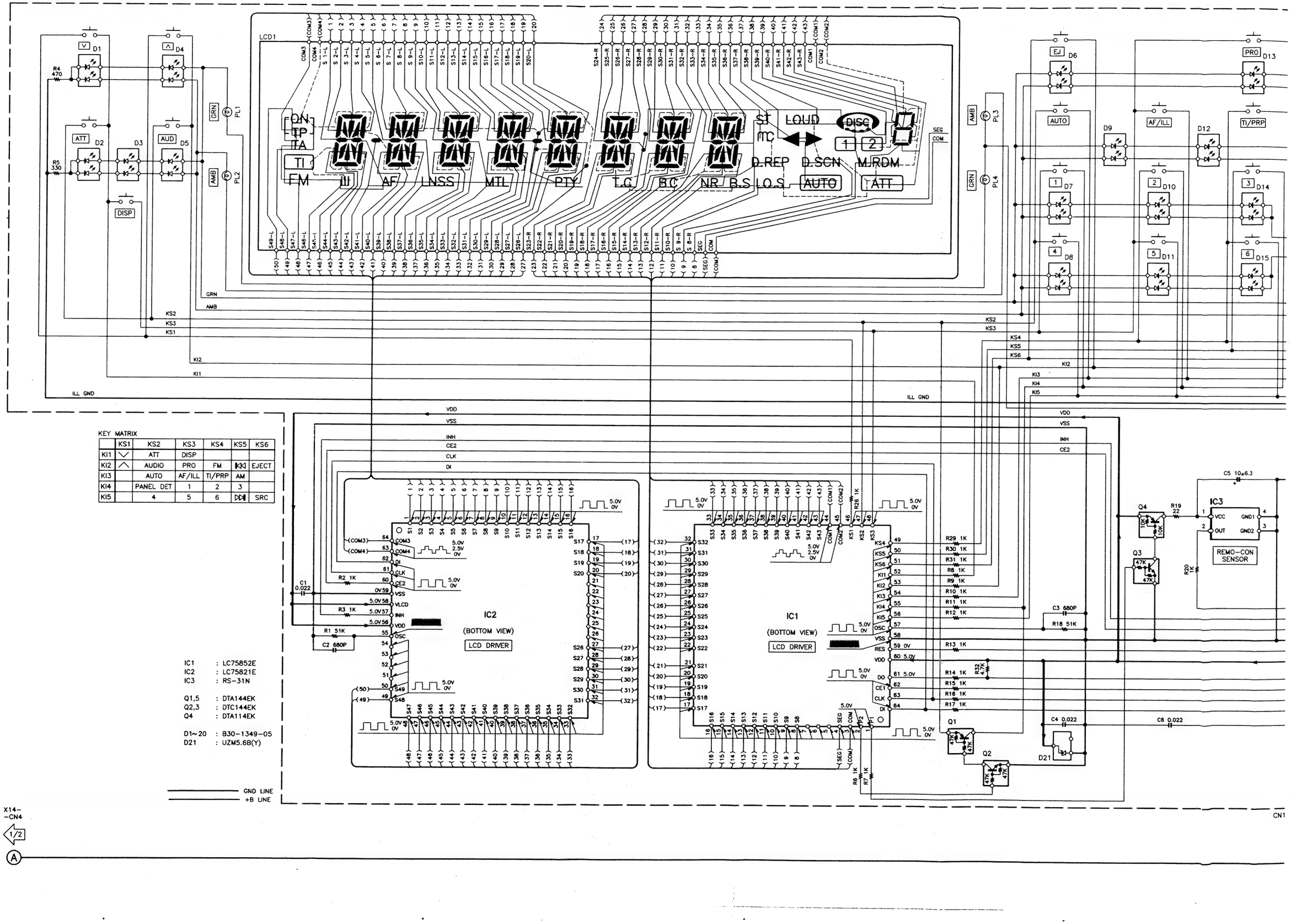
1/2

Y36-2042-70

KRC-956R/RL

KENWOOD

(X25-7312-7X)



KEY MATRIX

	KS1	KS2	KS3	KS4	KS5	KS6
KI1	∨	ATT	DISP			
KI2	∧	AUDIO	PRO	FM	⏮	EJECT
KI3		AUTO	AF/ILL	TI/PRP	AM	
KI4		PANEL DET	1	2	3	
KI5		4	5	6	⏭	SRC

IC1 : LC75852E
IC2 : LC75821E
IC3 : RS-31N

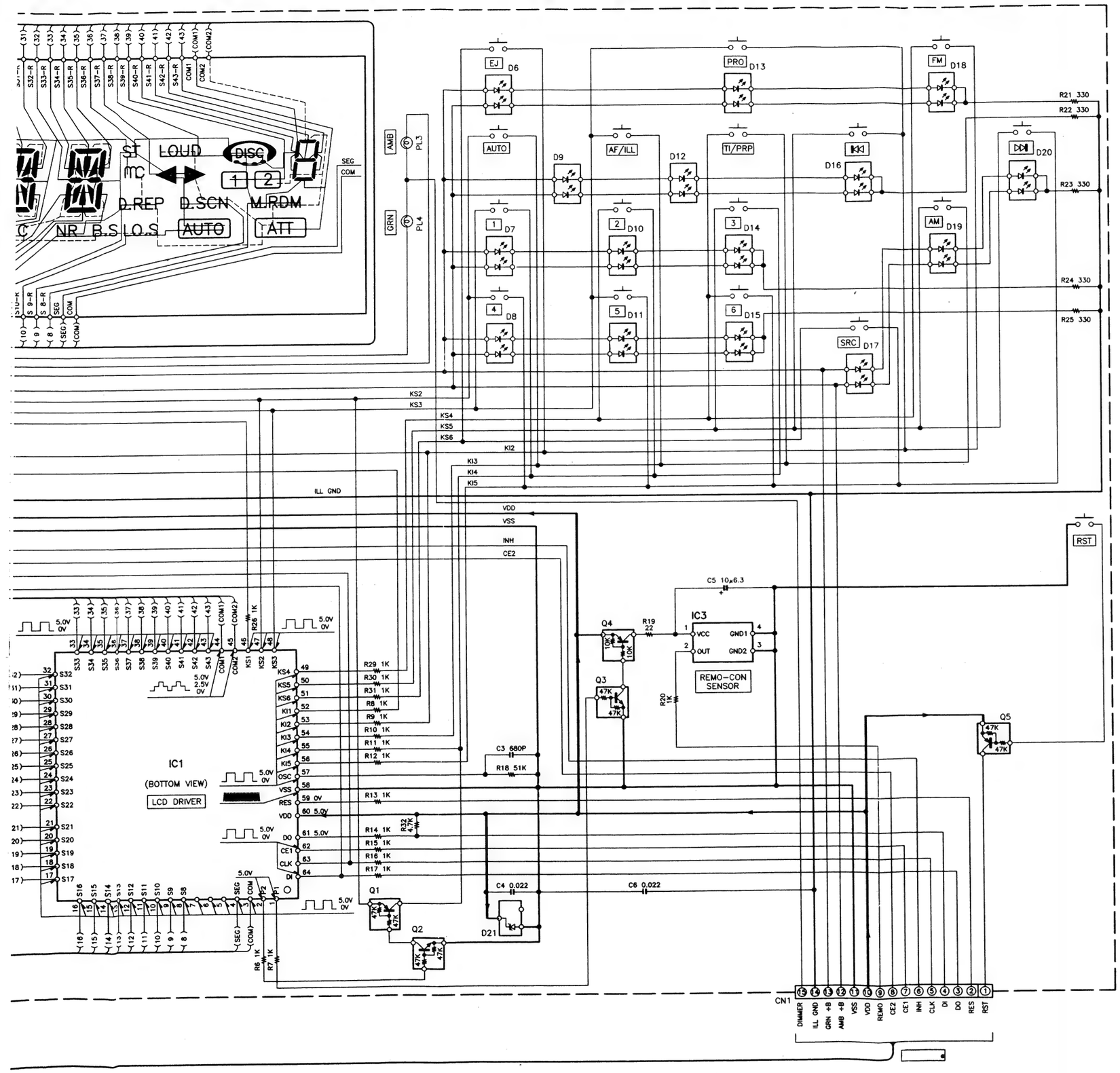
Q1,5 : DTA144EK
Q2,3 : DTC144EK
Q4 : DTA114EK

D1~20 : B30-1349-05
D21 : UZM5.6B(Y)

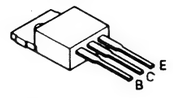
GND LINE
+B LINE

X14-
-CN4
1/2
A

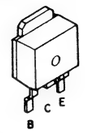
CN1



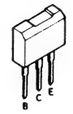
2SB1565



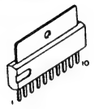
2SB1184



2SB1443



BA6238A

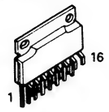


DAN202K

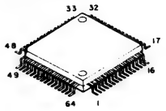
DA204K

2SK536

AN7190K



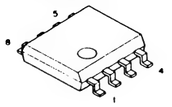
LC75852E



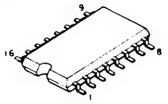
2SA1559
2SB1326

DTA114EK
DTA124EK
DTA144EK
DTC114EK
DTC114TK
DTC124EK
DTC144EK
DTC144WK
XDA124EK
XDC124EK
XDC144EK
2SA1037K
2SC2411K
2SC2412K
2SC2413K
2SD2114K

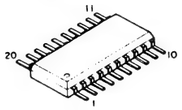
NJM4565M



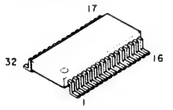
SAA6579T



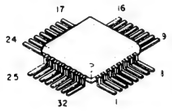
LM7001M



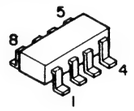
TEA6320T



TA75S393F
TC4S66F



TC4W66F



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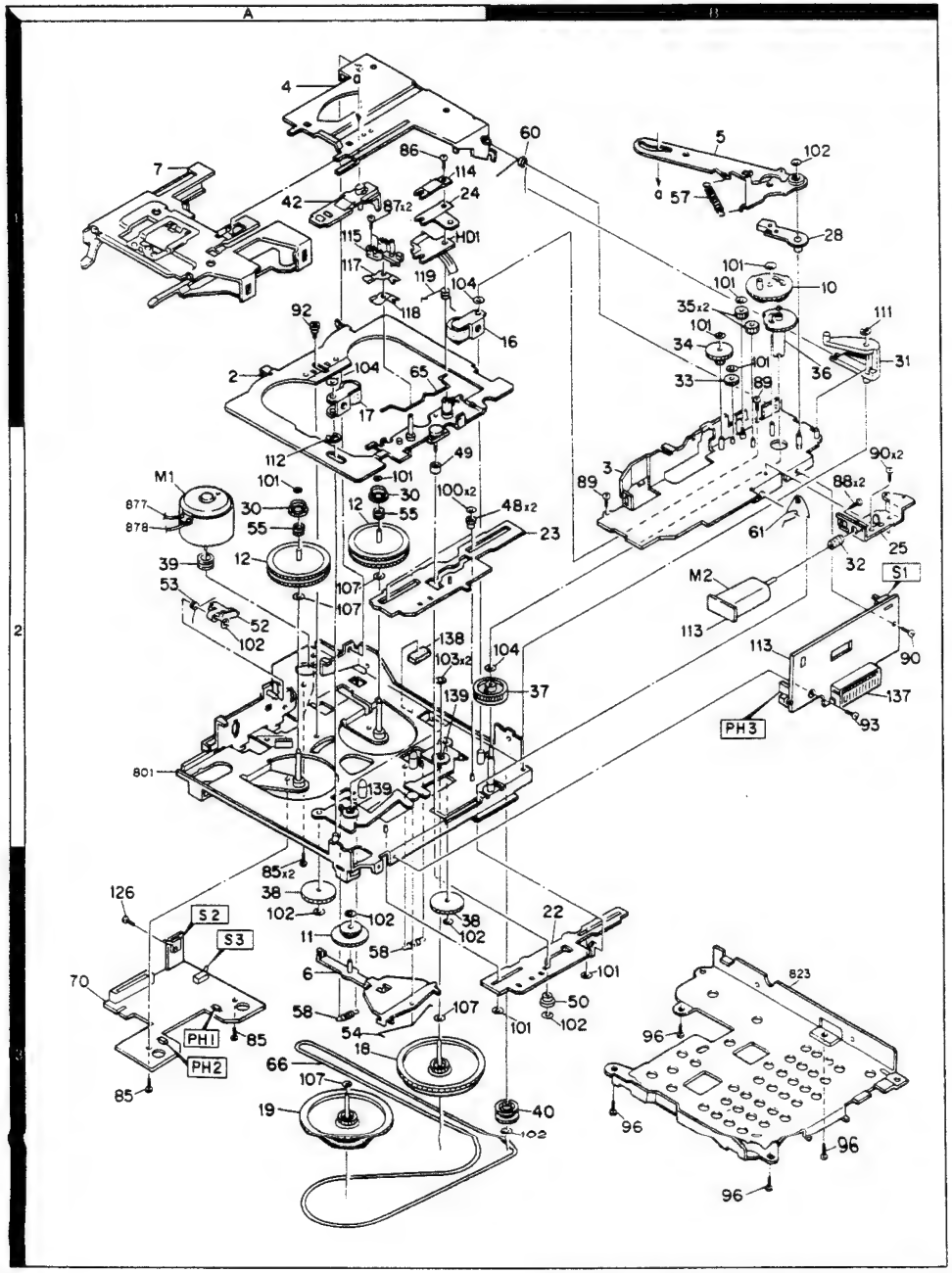
Y36-2042-70

KRC-956R/RL

KENWOOD

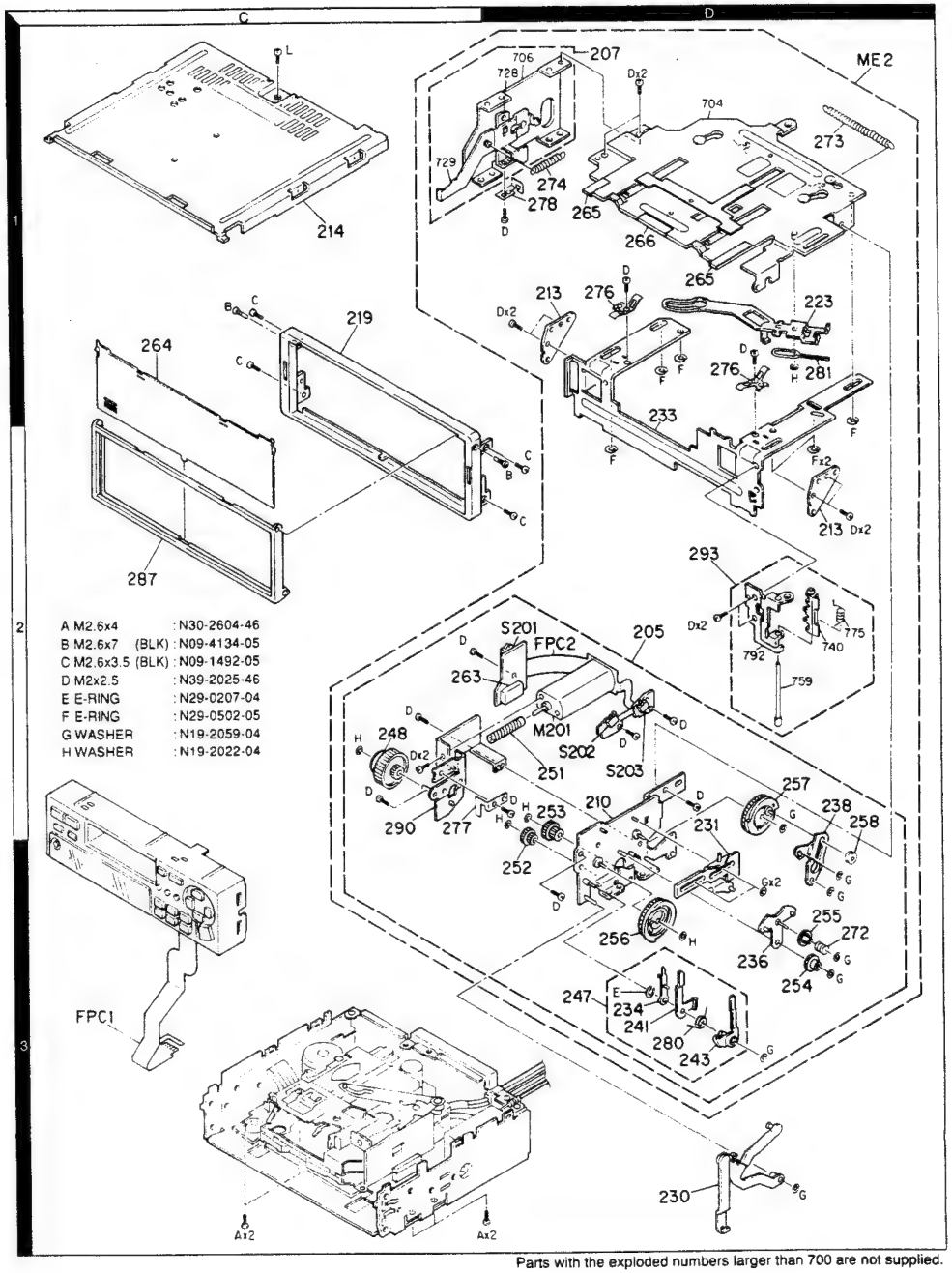
EXPLODED VIEW (MECHANISM)



Parts with the exploded numbers larger than 700 are not supplied.

KRC-956R/RL

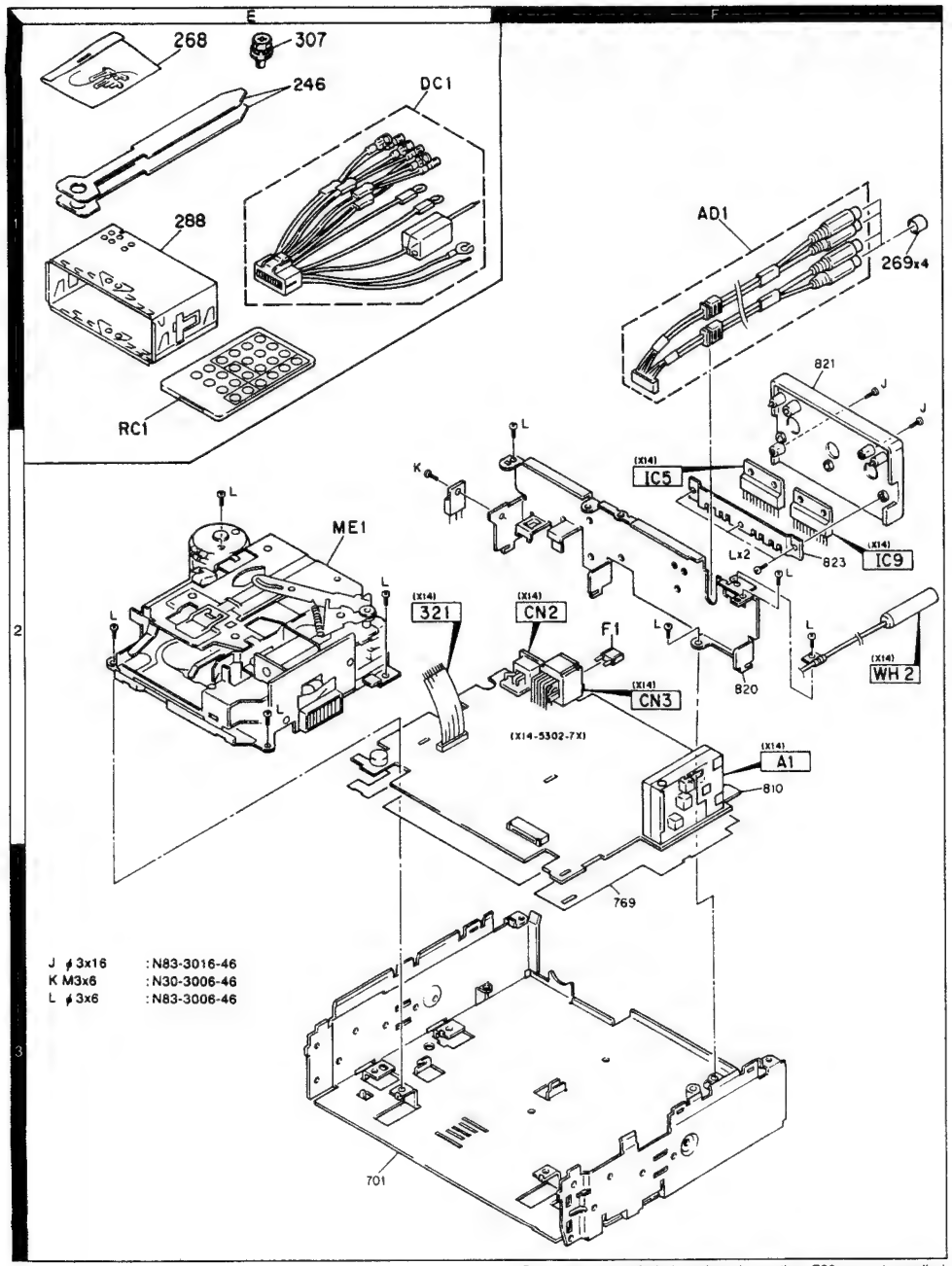
EXPLODED VIEW (UNIT)



A M2.6x4		: N30-2604-46
B M2.6x7	(BLK)	: N09-4134-05
C M2.6x3.5	(BLK)	: N09-1492-05
D M2x2.5		: N39-2025-46
E E-RING		: N29-0207-04
F E-RING		: N29-0502-05
G WASHER		: N19-2059-04
H WASHER		: N19-2022-04

Parts with the exploded numbers larger than 700 are not supplied.

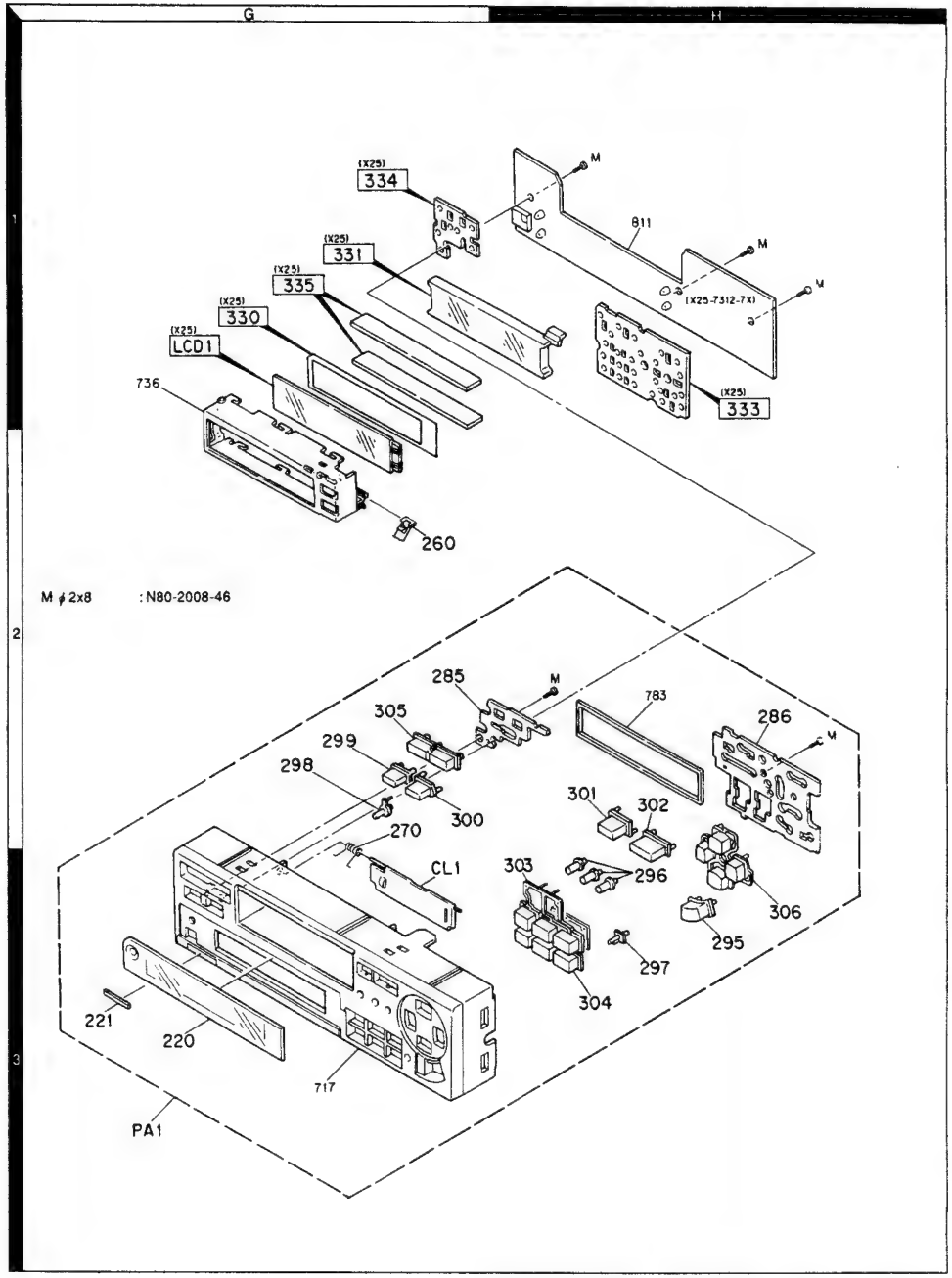
EXPLODED VIEW (UNIT)



Parts with the exploded numbers larger than 700 are not supplied.

KRC-956R/RL

EXPLODED VIEW (UNIT)



Parts with the exploded numbers larger than 700 are not supplied.

PARTS LIST

* New Parts
Parts without Parts No. are not supplied.
Les articles non mentionnes dans le Parts No. ne sont pas fournis.
Teile ohne Parts No. werden nicht geliefert.

KRC-956R/RL

Ref. No. 参照番号	New Parts 新	Parts No. 部品番号	Description 部品名/規格	Destination 仕向
KRC-956R/RL				
205	2D	* A10-2423-02	CHASSIS ASSY	
207	1C	* A10-2425-04	CHASSIS CALKING ASSY	
210	2C	* A10-2428-03	CHASSIS CALKING ASSY	
213	1D	* A50-1011-04	SIDE PLATE	
214	1C	* A52-0682-02	TOP COVER	
CL1	3G	* A53-1603-04	CASSETTE LID	
ME2	1D	* A10-2451-02	CHASSIS ASSY	
PA1	3G	* A64-0465-02	PANEL ASSY	R
PA1	3G	* A64-0466-02	PANEL ASSY	RL
RC1	1E	* A70-0837-05	REMOTE CONTROLLER ASSY	
219	1C	* B07-2058-01	ESCUTCHEON	
220	3G	* B10-1596-02	FRONT GLASS	
221	3G	B43-1212-04	KENWOOD BADGE	
-		B46-0100-30	WARRANTY CARD	
-		* B46-0612-04	ID CARD	
-		B58-1223-04	CAUTION CARD (CH,4WORD)	
-		B58-1225-04	CAUTION CARD (CH,2WORD)	RL
-		* B58-1234-04	CAUTION CARD (ACC)	
-		* B64-0454-00	INST. MANUAL (SPANISH)	R
-		* B64-0455-00	INST. MANUAL (GERMAN,ITALIAN)	
-		* B64-0457-00	INST. MANUAL (ENGLISH,FRENCH)	RL
-		* B64-0459-00	INST. MANUAL (DUTCH)	RL
223	1D	* D10-2990-04	ARM	
230	3D	* D10-2997-04	ARM ASSY	
231	3D	* D10-3000-04	LEVER ASSY	
233	1D	* D10-3003-02	LEVER	
234	3D	* D10-3004-04	ARM ASSY	
236	3D	* D10-3006-04	ARM ASSY	
238	2C	* D10-3008-04	ARM ASSY	
241	3D	* D10-3011-04	ARM	
243	3D	* D10-3013-04	ARM ASSY	
246	1E	D10-3023-04	LEVER	
247	3D	* D10-3030-04	ARM ASSY	
248	2C	* D13-1195-04	GEAR ASSY	
251	2D	* D13-1198-04	GEAR	
252	3D	* D13-1199-04	GEAR	
253	2D	* D13-1200-04	GEAR	
254	3D	* D13-1201-04	GEAR	
255	3D	* D13-1202-04	GEAR	
256	3D	* D13-1203-03	GEAR	
257	2D	* D13-1204-03	GEAR	
258	3D	* D14-0654-04	ROLLER	
ME1	2E	* D40-1065-05	CASSETTE MECHANISM ASSY	
260	2G	* E29-1470-04	LEAD PLATE	
263	2C	* E40-9411-05	SOCKET FOR PIN ASSY	
AD1	1F	* E30-4230-05	AUDIO CORD	
⚠ DC1	1E	* E30-4244-05	DC CORD	
264	1C	* F07-1047-04	COVER (SHUTTER)	
265	1D	* F09-1221-04	SHEET	
266	1D	* F09-1224-04	SHEET	
268	1E	* F19-1267-04	BLIND PLATE ASSY	
269	1F	F29-0049-05	INSULATING COVER	
⚠ F1	2F	F52-0006-05	FUSE(MINI BLADE)10A	
270	3G	* G01-2720-04	TORSION COIL SPRING	
272	3D	* G01-2722-04	COMPRESSION SPRING	
273	1D	* G01-2723-04	EXTENSION SPRING	
274	1D	* G01-2724-04	EXTENSION SPRING	
276	1D	* G02-1208-04	FLAT SPRING	
277	2C	* G02-1209-04	FLAT SPRING	
278	1D	* G02-1210-04	FLAT SPRING	
280	3D	* G09-2012-04	SPRING	
281	1D	* G09-2013-04	SPRING	
-		* H10-4483-02	POLYSTYRENE FOAMED FIXTURE	
-		H25-0329-04	PROTECTION BAG (280X450X0.03)	R
-		H25-0334-04	PROTECTION BAG (125X250X0.03)	
-		H25-0337-04	PROTECTION BAG (180X300X0.03)	
-		H25-1111-04	PROTECTION BAG (280X450X0.03)	RL
-		* H54-0331-04	ITEM CARTON CASE	R
-		* H54-0332-04	ITEM CARTON CASE	RL
-		* H64-0366-04	OUTER CARTON CASE	R
-		* H64-0367-04	OUTER CARTON CASE	RL
285	2G	* J19-4587-04	HOLDER	
286	2H	* J19-4588-03	HOLDER	
287	2C	* J19-4589-03	HOLDER	
288	1E	* J21-7566-03	MOUNTING HARDWARE ASSY	
290	2C	* J21-7568-04	MOUNTING HARDWARE ASSY	
293	2D	* J21-7595-03	MOUNTING HARDWARE ASSY	
FPC1	3C	* J84-0049-03	FLEXIBLE PRINTED WIRING BOARD	
FPC2	2D	* J84-0050-03	FLEXIBLE PRINTED WIRING BOARD	
295	3H	* K24-1574-03	KNOB (SRC)	
296	3H	* K24-1575-04	KNOB (AUTO·····)	
297	3H	* K24-1576-04	KNOB (RESET)	
298	2G	* K24-1577-04	KNOB (DISP)	
299	2G	* K24-1578-04	KNOB (ATT)	
300	2G	* K24-1579-04	KNOB (AUD)	
301	2H	* K24-1580-04	KNOB (EJECT)	
302	2H	* K24-1581-04	KNOB (PRG)	
303	3H	* K25-0667-03	KNOB (1-3)	
304	3H	* K25-0668-03	KNOB (4-6)	
305	2G	* K25-0669-03	KNOB (VOL)	
306	3H	* K25-0670-03	KNOB (FM/AM,+/-)	
307	1E	N09-1885-05	SEMS (MACHINE SCREW)	
A	3C	N30-2604-46	PAN HEAD MACHINE SCREW	
B	1C	* N09-4134-05	STEPPED SCREW	
C	1C	N09-1492-05	MACHINE SCREW (2.6X3.5)	
D	1D	N39-2025-46	PAN HEAD MACHIN SCREW	
E	3D	N29-0207-04	RETAINING RING (2.5)	
F	1D	N29-0502-05	RETAINING RING (2X6.5X0.4)	
G	3D	* N19-2059-04	FLAT WASHER	
H	2D	N19-2022-04	FLAT WASHER	
L	2E	N83-3006-46	PAN HEAD TAPTITE SCREW	
M	1M	N80-2008-46	PAN HEAD TAPTITE SCREW	
S201	2C	* S68-0814-05	PUSH SWITCH	
S202,203	2D	* S68-0816-05	PUSH SWITCH	

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RL : KRC-956RL
⚠ indicates safety critical components.

KRC-956R/RL

PARTS LIST

* New Parts
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Teile ohne Parts No. werden nicht geliefert.

KRC-956R/RL
(X14-5302-XX)

Ref. No. 参照番号	New Parts 新	Parts No. 部品番号	Description 部品名/規格	Destination 仕向
M201	2D	T42-0731-05	DC MOTOR	
SYNTHESIZER UNIT (X14-5302-74 : KRC-956R, 2-75 : KRC-956RL)				
D27		B30-1405-05	LED	
C1 ,2		CE04CW1HR22M	ELECTRO 0.22UF 50WV	
C3		CK73FB1H103K	CHIP C 0.010UF K	
C4	*	C90-2823-05	ALMINIUM ELECTROLYTIC C.	
C5	*	C90-2828-05	ALMINIUM ELECTROLYTIC C.	
C6		CK73FB1H103K	CHIP C 0.010UF K	
C7	*	C90-2829-05	ALMINIUM ELECTROLYTIC C.	
C8 ,9		CK73FB1H223KTA	CHIP C 0.022UF K	
C10		CK73FB1E473KTA	CHIP C 0.047UF K	
C11		CK73FB1H103K	CHIP C 0.010UF K	
C12	*	C90-2833-05	ALMINIUM ELECTROLYTIC C.	
C13		CK73FB1H223KTA	CHIP C 0.022UF K	
C14		C90-2690-05	ELECTRO 4700UF 16WV	
C15		CK73FB1H223KTA	CHIP C 0.022UF K	
C16		C92-0009-05	CHIP-TAN 4.7UF 10WV	
C17		CK73FB1H103K	CHIP C 0.010UF K	
C18	*	C90-2833-05	ALMINIUM ELECTROLYTIC C.	
C19		CK73FB1H103K	CHIP C 0.010UF K	
C20		CK73FB1H223KTA	CHIP C 0.022UF K	
C21	*	C90-2833-05	ALMINIUM ELECTROLYTIC C.	
C22		CK73FB1H223KTA	CHIP C 0.022UF K	
C23		C92-0509-05	CHIP-TAN 10UF 6.3WV	
C24 ,25		CK73FB1H223KTA	CHIP C 0.022UF K	
C26		CK73FB1H103K	CHIP C 0.010UF K	
C27 ,28		CK73FB1H223KTA	CHIP C 0.022UF K	
C29		CK73FB1H103K	CHIP C 0.010UF K	
C30		C90-1827-05	ELECTRO 0.047F 5.5WV	
C31		C92-0004-05	CHIP-TAN 1.0UF 16WV	
C32		CK73FB1H223KTA	CHIP C 0.022UF K	
C33		CK73FB1H103K	CHIP C 0.010UF K	
C34	*	C90-2831-05	ALMINIUM ELECTROLYTIC C.	
C35		CK73FB1H223KTA	CHIP C 0.022UF K	
C36		C90-2683-05	ELECTRO 100UF 16WV	
C37 ,38		CK73EB1E104K	CHIP C 0.10UF K	
C39 ,40		CK73EB1E184K	CHIP C 0.18UF K	
C41 ,42	*	C90-2832-05	ALMINIUM ELECTROLYTIC C.	
C43	*	C90-2831-05	ALMINIUM ELECTROLYTIC C.	
C44		CC73FCH1H070D	CHIP C 7.0PF D	
C45 ,46		CK73FB1H472K	CHIP C 4700PF K	
C47		CK73FB1H223KTA	CHIP C 0.022UF K	
C48	*	C90-2829-05	ALMINIUM ELECTROLYTIC C.	
C49 ,50		CK73FB1E473KTA	CHIP C 0.047UF K	
C51 ,52		CK73EB1E104K	CHIP C 0.10UF K	
C53 ,54	*	C90-2832-05	ALMINIUM ELECTROLYTIC C.	
C55		CC73FCH1H070D	CHIP C 7.0PF D	
C56		CK73FB1C104K	CHIP C 0.10UF K	
C57	*	C90-2828-05	ALMINIUM ELECTROLYTIC C.	
C58		CK73FB1H223KTA	CHIP C 0.022UF K	
C59 ,60		CK73FB1H182K	CHIP C 1800PF K	
C61 ,62	*	C90-2832-05	ALMINIUM ELECTROLYTIC C.	
C63 ,64		C92-1018-05	ELECTRO 1.0UF 50WV	
C65 ,66	*	C90-2832-05	ALMINIUM ELECTROLYTIC C.	
C67 ,68		C92-0002-05	CHIP-TAN 0.22UF 35WV	
C69 ,70		CE04DW1H4R7M	ELECTRO 4.7UF 50WV	
C71 ,72		CK73FB1H182K	CHIP C 1800PF K	
C73 -76		CK73EB1E104K	CHIP C 0.10UF K	
C77		C90-2683-05	ELECTRO 100UF 16WV	
C78		C92-0004-05	CHIP-TAN 1.0UF 16WV	
C79		CK73FB1H103K	CHIP C 0.010UF K	
C80		CK73FB1H223KTA	CHIP C 0.022UF K	
C81 -84		C93-1052-05	CERAMIC 6800PF K	
C85 -88		CE04DW1H100M	ELECTRO 10UF 50WV	
C89		CK73EB1C474K	CHIP C 0.47UF K	
C90		CK73FB1H472K	CHIP C 4700PF K	
C91 -93		CK73FB1H103K	CHIP C 0.010UF K	
C94		CK73FB1H393K	CHIP C 0.039UF K	
C95	*	C90-2829-05	ALMINIUM ELECTROLYTIC C.	
C96		C92-0005-05	CHIP-TAN 2.2UF 6.3WV	
C97		CC73FCH1H331J	CHIP C 330PF J	
C98	*	C90-2828-05	ALMINIUM ELECTROLYTIC C.	
C99 ,100		CK73FB1H103K	CHIP C 0.010UF K	
C101		CK73FB1E473KTA	CHIP C 0.047UF K	
C102		CK73FB1H561K	CHIP C 560PF K	
C103	*	C90-2829-05	ALMINIUM ELECTROLYTIC C.	
C104		C92-0004-05	CHIP-TAN 1.0UF 16WV	
C105-108		CK73FB1C104K	CHIP C 0.10UF K	
C109-114		CK73FB1H222K	CHIP C 2200PF K	
C115,116		CE04CW1H0R1M	ELECTRO 0.1UF 50WV	
C117		CK73FB1H103K	CHIP C 0.010UF K	
C118		CK73FB1H223KTA	CHIP C 0.022UF K	
C119		C93-0025-05	CERAMIC 0.22UF K	
C120		CC73FCH1H820J	CHIP C 82PF J	
C121		CC73FCH1H470J	CHIP C 47PF J	
C122		C93-0025-05	CERAMIC 0.22UF K	
C123,124		CC73FSL1H821J	CHIP C 820PF J	
C125,126	*	C90-2825-05	ALMINIUM ELECTROLYTIC C.	
C127,128		CC73FSL1H821J	CHIP C 820PF J	
C129,130		CK73FB1H123K	CHIP C 0.012UF K	
C131		CK73FB1H472K	CHIP C 4700PF K	
C132		CK73FB1H223KTA	CHIP C 0.022UF K	
C133		CE04DW1A101M	ELECTRO 100UF 10WV	
C134		CK73FB1H222K	CHIP C 2200PF K	
C135		CK73FB1H122K	CHIP C 1200PF K	
C136		CC73FCH1H270J	CHIP C 27PF J	
C137		CK73FB1H102K	CHIP C 1000PF K	
C138		CK73FB1H223KTA	CHIP C 0.022UF K	
C139		CC73FCH1H101J	CHIP C 100PF J	
C140		CC73FCH1H270J	CHIP C 27PF J	
C141		CK73FB1H561K	CHIP C 560PF K	
C142		CK73FB1H223KTA	CHIP C 0.022UF K	
C143		CC73FCH1H221J	CHIP C 220PF J	
C144		CK73FB1H561K	CHIP C 560PF K	
C145		CK73FB1H223KTA	CHIP C 0.022UF K	
C146		CK73FB1H103K	CHIP C 0.010UF K	
C147		CE04CW1A100M	ELECTRO 10UF 10WV	
C148		CE04DW1A101M	ELECTRO 100UF 10WV	

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PARTS LIST

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Teile ohne Parts No. werden nicht geliefert.

(X14-5302-XX)

Ref. No. 参照番号	New Parts 新	Parts No. 部品番号	Description 部品名/規格			Destination 仕向
C149		CF92FV1H122J	MF-C	1200PF	J	
C150		CK73FB1E683KTA	CHIP C	0.068UF	K	
C151		CF92FV1H103J	MF-C	0.010UF	J	
C152		C90-2807-05	NP-ELEC	0.47UF	35WV	
C153		CK73FB1H223KTA	CHIP C	0.022UF	K	
C154		CK73FB1H182K	CHIP C	1800PF	K	
C155		CK73FB1C104K	CHIP C	0.10UF	K	
C156		CK73FB1H223KTA	CHIP C	0.022UF	K	
C157,158		CK73FB1C104K	CHIP C	0.10UF	K	
C159		CK73FB1H222K	CHIP C	2200PF	K	
C160		CK73FB1H472K	CHIP C	4700PF	K	
C161		CK73FB1H273K	CHIP C	0.027UF	K	R
C161,162		CK73FB1H273K	CHIP C	0.027UF	K	RL
C162		CK73FB1H393K	CHIP C	0.039UF	K	R
C163,164		CK73FB1H102K	CHIP C	1000PF	K	
C165,166		CK73FB1H153K	CHIP C	0.015UF	K	
C167		CK73FB1C104K	CHIP C	0.10UF	K	
C168		CE04DW1A330M	ELECTRO	33UF	10WV	
C169		CK73FB1E473KTA	CHIP C	0.047UF	K	
C170		CK73FB1C104K	CHIP C	0.10UF	K	
C171	*	C90-2833-05	ALMINIUM ELECTROLYTIC C.			
C172		CE04DW1A101M	ELECTRO	100UF	10WV	
C173		CK73FB1H223KTA	CHIP C	0.022UF	K	
C174		CK73FB1C104K	CHIP C	0.10UF	K	
C175	*	C90-2833-05	ALMINIUM ELECTROLYTIC C.			
C176		CK73FB1E683KTA	CHIP C	0.068UF	K	
C177		CK73FB1C104K	CHIP C	0.10UF	K	
C178		CK73FB1E473KTA	CHIP C	0.047UF	K	
C179		CK73FB1H103K	CHIP C	0.010UF	K	
C180		CK73FB1E473KTA	CHIP C	0.047UF	K	
C181	*	C90-2829-05	ALMINIUM ELECTROLYTIC C.			
C182		C92-0005-05	CHIP-TAN	2.2UF	6.3WV	
C183		CK73FB1H103K	CHIP C	0.010UF	K	
C184		C92-0003-05	CHIP-TAN	0.47UF	25WV	
C185		CK73FB1H472K	CHIP C	4700PF	K	
C186		C92-0004-05	CHIP-TAN	1.0UF	16WV	
C187		C92-0005-05	CHIP-TAN	2.2UF	6.3WV	
C188		CK73FB1C104K	CHIP C	0.10UF	K	
C189		CC73FCH1H070D	CHIP C	7.0PF	D	
C190		CK73FB1H182K	CHIP C	1800PF	K	
C191,192		CK73FB1H103K	CHIP C	0.010UF	K	
C193		CK73FB1H223KTA	CHIP C	0.022UF	K	
C194		CC73FCH1H070D	CHIP C	7.0PF	D	
C195		C92-0005-05	CHIP-TAN	2.2UF	6.3WV	
C196		CK73FB1H103K	CHIP C	0.010UF	K	
C197		CC73FCH1H070D	CHIP C	7.0PF	D	
C198		CK73FB1H223KTA	CHIP C	0.022UF	K	
C199		CE04DW1A470M	ELECTRO	47UF	10WV	
C200		CK73FB1E823K	CHIP C	0.082UF	K	
C201		CC73FCH1H471J	CHIP C	470PF	J	
C202		CK73FB1H223KTA	CHIP C	0.022UF	K	
C203		CC73FCH1H101J	CHIP C	100PF	J	
C204		CK73FB1C104K	CHIP C	0.10UF	K	
C205		C92-0509-05	CHIP-TAN	10UF	6.3WV	
C206		CK73FB1H223KTA	CHIP C	0.022UF	K	

Ref. No. 参照番号	New Parts 新	Parts No. 部品番号	Description 部品名/規格			Destination 仕向
C207	*	C90-2824-05	ALMINIUM ELECTROLYTIC C.			
C208		CK73FB1H223KTA	CHIP C	0.022UF	K	
C209,210		CK73EB1E104K	CHIP C	0.10UF	K	
C211		CK73FB1H223KTA	CHIP C	0.022UF	K	
C212-214		CK73FB1H102K	CHIP C	1000PF	K	
C215,216		CK73FB1H223KTA	CHIP C	0.022UF	K	
C217		CK73FB1H102K	CHIP C	1000PF	K	
321 2E	*	E39-0092-05	LEAD WIRE			
CN1		E40-3243-05	PIN ASSY			
CN2		E56-0809-05	CYLINDRICAL RECEPTACLE			
⚠ CN3		E58-0836-05	RECTANGULAR RECEPTACLE			
CN4	*	E40-9399-05	FLAT CABLE CONNCTOR			
CN5	*	E40-9400-05	PIN ASSY			
CN6		E40-5452-05	PIN ASSY			
WH2 2F		E30-4205-05	CORD WITH PLUG			
CF1		L72-0721-05	CERAMIC FILTER			
CF2 ,3		L72-0715-05	CERAMIC FILTER			
L1 ,2		L33-0916-05	SMALL FIXED INDUCTOR			
L3 ,4		L40-4791-31	SMALL FIXED INDUCTOR(4.7UH)			
L5		L33-0916-05	SMALL FIXED INDUCTOR			
L6		L40-1021-14	SMALL FIXED INDUCTOR(1MH)			
L7 -9		L33-0916-05	SMALL FIXED INDUCTOR			
T1		L30-0462-15	FM IFT			
X1		L77-2003-05	CRYSTAL RESONATOR(8.388608MHZ)			
X2		L77-2002-05	CRYSTAL RESONATOR			
X3		L77-1166-05	CRYSTAL RESONATOR			
X4		L78-0534-05	RESONATOR			
J 1F		N83-3016-46	PAN HEAD TAPTITE SCREW			
K 2E		N30-3006-46	PAN HEAD MACHINE SCREW			
L 2F		N83-3006-46	PAN HEAD TAPTITE SCREW			
R1		RK73FB2A271J	CHIP R	270	J 1/10W	
R2		RK73FB2A104J	CHIP R	100K	J 1/10W	
R3		RK73FB2A471J	CHIP R	470	J 1/10W	
R4		RK73EB2B102J	CHIP R	1.0K	J 1/8W	
R5		RK73FB2A101J	CHIP R	100	J 1/10W	
R6 ,7		RK73FB2A104J	CHIP R	100K	J 1/10W	
R8		RK73FB2A471J	CHIP R	470	J 1/10W	
R9 ,10		RK73FB2A104J	CHIP R	100K	J 1/10W	
R11		RK73EB2B102J	CHIP R	1.0K	J 1/8W	
R12		RK73FB2A470J	CHIP R	47	J 1/10W	
R13		RK73FB2A392J	CHIP R	3.9K	J 1/10W	
R14 -16		RK73FB2A104J	CHIP R	100K	J 1/10W	
R17 ,18		RK73FB2A101J	CHIP R	100	J 1/10W	
R19		RK73EB2B102J	CHIP R	1.0K	J 1/8W	
R20 ,21		RK73FB2A101J	CHIP R	100	J 1/10W	
R22		R92-2023-05	CHIP R	820	J 1/2W	
R23		RK73FB2A102J	CHIP R	1.0K	J 1/10W	
R24		RK73FB2A103J	CHIP R	10K	J 1/10W	
R25		RK73FB2A222J	CHIP R	2.2K	J 1/10W	
R26		RK73EB2B331J	CHIP R	330	J 1/8W	
R27		RK73FB2A102J	CHIP R	1.0K	J 1/10W	
R28		RK73FB2A103J	CHIP R	10K	J 1/10W	
R29		RK73EB2B103J	CHIP R	10K	J 1/8W	

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R : KRC-956R
RL : KRC-956RL

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KRC-956R/RL

PARTS LIST

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(X14-5302-XX)

Ref. No. 参照番号	New Parts 新	Parts No. 部品番号	Description 部品名/規格			Destination 仕向
R30		RK73FB2A102J	CHIP R	1.0K	J 1/10W	
R31		RK73FB2A823J	CHIP R	82K	J 1/10W	
R32		RK73FB2A392J	CHIP R	3.9K	J 1/10W	
R33		RK73FB2A103J	CHIP R	10K	J 1/10W	
R34		RK73FB2A102J	CHIP R	1.0K	J 1/10W	
R35		RK73FB2A473J	CHIP R	47K	J 1/10W	
R36		RK73FB2A183J	CHIP R	18K	J 1/10W	
R37		RK73FB2A223J	CHIP R	22K	J 1/10W	
R38		RK73FB2A103J	CHIP R	10K	J 1/10W	
R39		RK73FB2A153J	CHIP R	15K	J 1/10W	
R40		RK73FB2A102J	CHIP R	1.0K	J 1/10W	
R41		RK73FB2A473J	CHIP R	47K	J 1/10W	
R42 ,43		RK73FB2A104J	CHIP R	100K	J 1/10W	
R44		RK73FB2A473J	CHIP R	47K	J 1/10W RL	
R44 ,45		RK73FB2A473J	CHIP R	47K	J 1/10W R	
R46 ,47		RK73FB2A473J	CHIP R	47K	J 1/10W RL	
R47		RK73FB2A473J	CHIP R	47K	J 1/10W R	
R49		RK73FB2A104J	CHIP R	100K	J 1/10W	
R53		RK73FB2A472J	CHIP R	4.7K	J 1/10W	
R54		RK73FB2A222J	CHIP R	2.2K	J 1/10W	
R55		RK73FB2A472J	CHIP R	4.7K	J 1/10W	
R57		RK73FB2A472J	CHIP R	4.7K	J 1/10W	
R58		RK73EB2B222J	CHIP R	2.2K	J 1/8W	
R59 ,60		RK73FB2A472J	CHIP R	4.7K	J 1/10W	
R61		RS14DB3A332J	FL-PROOF RS	3.3K	J 1W	
R62		RK73EB2B102J	CHIP R	1.0K	J 1/8W	
R63 ,64		RK73EB2B2R2J	CHIP R	2.2	J 1/8W	
R65 ,66		RK73FB2A332J	CHIP R	3.3K	J 1/10W	
R67 -71		RK73FB2A222J	CHIP R	2.2K	J 1/10W	
R72		R92-2089-05	METAL R	75	J 1W	
R73 ,74		RK73FB2A362J	CHIP R	3.6K	J 1/10W	
R75 ,76		RK73FB2A473J	CHIP R	47K	J 1/10W	
R77		RK73FB2A472J	CHIP R	4.7K	J 1/10W	
R78		RK73FB2A223J	CHIP R	22K	J 1/10W	
R79 -82		RK73FB2A222J	CHIP R	2.2K	J 1/10W	
R83 ,84		RK73EB2B2R2J	CHIP R	2.2	J 1/8W	
R85 -90		RK73FB2A222J	CHIP R	2.2K	J 1/10W	
R91		RK73FB2A223J	CHIP R	22K	J 1/10W	
R92 -97		RK73FB2A222J	CHIP R	2.2K	J 1/10W	
R98		RK73FB2A472J	CHIP R	4.7K	J 1/10W	
R99		RK73FB2A473J	CHIP R	47K	J 1/10W	
R100		RK73FB2A472J	CHIP R	4.7K	J 1/10W	
R101,102		RK73EB2B2R2J	CHIP R	2.2	J 1/8W	
R103		RK73FB2A104J	CHIP R	100K	J 1/10W	
R104		RK73FB2A222J	CHIP R	2.2K	J 1/10W	
R105-108		RK73FB2A183J	CHIP R	18K	J 1/10W	
R109,110		RK73FB2A362J	CHIP R	3.6K	J 1/10W	
R111,112		RK73FB2A472J	CHIP R	4.7K	J 1/10W	
R113		RK73FB2A222J	CHIP R	2.2K	J 1/10W	
R114		RK73FB2A223J	CHIP R	22K	J 1/10W	
R115,116		RK73EB2B2R2J	CHIP R	2.2	J 1/8W	
R119-124		RK73FB2A223J	CHIP R	22K	J 1/10W	
R125,126		RK73FB2A472J	CHIP R	4.7K	J 1/10W	
R127		RK73FB2A222J	CHIP R	2.2K	J 1/10W	
R128-130		RK73FB2A472J	CHIP R	4.7K	J 1/10W	

Ref. No. 参照番号	New Parts 新	Parts No. 部品番号	Description 部品名/規格			Destination 仕向
R131		RK73FB2A222J	CHIP R	2.2K	J 1/10W	
R132		RK73FB2A472J	CHIP R	4.7K	J 1/10W	
R133		RK73FB2A222J	CHIP R	2.2K	J 1/10W	
R134-138		RK73FB2A472J	CHIP R	4.7K	J 1/10W	
R139		RK73FB2A104J	CHIP R	100K	J 1/10W	
R140		RK73FB2A471J	CHIP R	470	J 1/10W	
R141		RK73FB2A334J	CHIP R	330K	J 1/10W	
R142		RK73FB2A473J	CHIP R	47K	J 1/10W	
R143		RK73FB2A223J	CHIP R	22K	J 1/10W	
R144		RK73FB2A471J	CHIP R	470	J 1/10W	
R145,146		RK73FB2A104J	CHIP R	100K	J 1/10W	
R147		RK73FB2A224J	CHIP R	220K	J 1/10W	
R148		RK73FB2A471J	CHIP R	470	J 1/10W	
R149-152		RK73FB2A104J	CHIP R	100K	J 1/10W	
R153-156		RK73FB2A101J	CHIP R	100	J 1/10W	
R157		RK73FB2A471J	CHIP R	470	J 1/10W	
R158		RK73FB2A334J	CHIP R	330K	J 1/10W	
R159		RK73FB2A333J	CHIP R	33K	J 1/10W	
R160		RK73FB2A561J	CHIP R	560	J 1/10W	
R161		RK73FB2A103J	CHIP R	10K	J 1/10W	
R162		RK73FB2A473J	CHIP R	47K	J 1/10W	
R163		RK73FB2A163J	CHIP R	16K	J 1/10W	
R165		RK73FB2A473J	CHIP R	47K	J 1/10W	
R166		RK73FB2A104J	CHIP R	100K	J 1/10W	
R167,168		RK73FB2A473J	CHIP R	47K	J 1/10W	
R169,170		RK73FB2A561J	CHIP R	560	J 1/10W	
R171,172		RK73FB2A223J	CHIP R	22K	J 1/10W	
R173		RK73FB2A222J	CHIP R	2.2K	J 1/10W	
R174		RK73FB2A183J	CHIP R	18K	J 1/10W	
R175,176		RK73FB2A123J	CHIP R	12K	J 1/10W	
R177,178		RK73FB2A183J	CHIP R	18K	J 1/10W	
R179,180		RK73FB2A334J	CHIP R	330K	J 1/10W	
R181-184		RK73FB2A473J	CHIP R	47K	J 1/10W	
R185,186		RK73FB2A151J	CHIP R	150	J 1/10W	
R187		RK73FB2A471J	CHIP R	470	J 1/10W	
R188		RK73FB2A223J	CHIP R	22K	J 1/10W	
R189		RK73FB2A102J	CHIP R	1.0K	J 1/10W	
R190		RK73FB2A222J	CHIP R	2.2K	J 1/10W	
R191		RK73FB2A104J	CHIP R	100K	J 1/10W	
R192		RK73FB2A271J	CHIP R	270	J 1/10W	
R193		RK73FB2A103J	CHIP R	10K	J 1/10W	
R194		RK73FB2A123J	CHIP R	12K	J 1/10W	
R195		RK73FB2A822J	CHIP R	8.2K	J 1/10W	
R196		RK73FB2A752J	CHIP R	7.5K	J 1/10W	
R197,198		RK73FB2A104J	CHIP R	100K	J 1/10W	
R199		RK73FB2A223J	CHIP R	22K	J 1/10W	
R200		RK73FB2A752J	CHIP R	7.5K	J 1/10W	
R201		RK73FB2A101J	CHIP R	100	J 1/10W	
R202		RK73FB2A562J	CHIP R	5.6K	J 1/10W	
R203-205		RK73FB2A103J	CHIP R	10K	J 1/10W	
R206		RK73FB2A332J	CHIP R	3.3K	J 1/10W	
R207		RK73FB2A223J	CHIP R	22K	J 1/10W	
R208		RK73FB2A472J	CHIP R	4.7K	J 1/10W	
R209		RK73FB2A752J	CHIP R	7.5K	J 1/10W	
R210		RK73FB2A333J	CHIP R	33K	J 1/10W	

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(X14-5302-XX)

Ref. No. 参照番号	New Parts 新	Parts No. 部品番号	Description 部品名／規格			Destination 仕向
R211		RK73FB2A222J	CHIP R	2.2K	J 1/10W	RL
R212		RK73FB2A102J	CHIP R	1.0K	J 1/10W	
R213		RK73FB2A123J	CHIP R	12K	J 1/10W	
R214		RK73FB2A822J	CHIP R	8.2K	J 1/10W	
R215		RK73FB2A223J	CHIP R	22K	J 1/10W	
R216		RK73FB2A103J	CHIP R	10K	J 1/10W	
R217		RK73FB2A102J	CHIP R	1.0K	J 1/10W	
R218		RK73FB2A184J	CHIP R	180K	J 1/10W	
R219		RK73FB2A472J	CHIP R	4.7K	J 1/10W	
R220		RK73FB2A331J	CHIP R	330	J 1/10W	
R221		RK73FB2A101J	CHIP R	100	J 1/10W	
R222		RK73FB2A683J	CHIP R	68K	J 1/10W	
R223		RK73FB2A682J	CHIP R	6.8K	J 1/10W	
R224		RK73FB2A102J	CHIP R	1.0K	J 1/10W	
R225		RK73FB2A103J	CHIP R	10K	J 1/10W	
R226		RK73EB2B4R7J	CHIP R	4.7	J 1/8W	
R227		RK73FB2A242J	CHIP R	2.4K	J 1/10W	
R228		RK73FB2A223J	CHIP R	22K	J 1/10W	
R229		RK73FB2A221J	CHIP R	220	J 1/10W	
R230		RK73FB2A102J	CHIP R	1.0K	J 1/10W	
R231		RK73FB2A392J	CHIP R	3.9K	J 1/10W	
R232		RK73FB2A472J	CHIP R	4.7K	J 1/10W	
R233		RK73FB2A104J	CHIP R	100K	J 1/10W	
R234		RK73FB2A102J	CHIP R	1.0K	J 1/10W	
R235		RK73FB2A224J	CHIP R	220K	J 1/10W	
R236		RK73FB2A104J	CHIP R	100K	J 1/10W	
R237		RK73FB2A562J	CHIP R	5.6K	J 1/10W	
R238		RK73FB2A823J	CHIP R	82K	J 1/10W	
R239		RK73FB2A274J	CHIP R	270K	J 1/10W	
R241		RK73FB2A391J	CHIP R	390	J 1/10W	
R242		RK73FB2A331J	CHIP R	330	J 1/10W	
R243		RK73FB2A225J	CHIP R	2.2M	J 1/10W	
R244		RK73FB2A103J	CHIP R	10K	J 1/10W	
R245		RK73FB2A153J	CHIP R	15K	J 1/10W	
R246		RK73FB2A511J	CHIP R	510	J 1/10W	
R247		RK73FB2A331J	CHIP R	330	J 1/10W	
R248		RK73FB2A271J	CHIP R	270	J 1/10W	
R249		RK73FB2A330J	CHIP R	33	J 1/10W	
R250		RK73FB2A332J	CHIP R	3.3K	J 1/10W	
R251		RK73FB2A153J	CHIP R	15K	J 1/10W	
R252		RK73FB2A105J	CHIP R	1.0M	J 1/10W	
R253		RK73FB2A2R2J	CHIP R	2.2	J 1/10W	
R254		RK73FB2A431J	CHIP R	430	J 1/10W	
R255		RK73FB2A152J	CHIP R	1.5K	J 1/10W	
R256		RK73FB2A100J	CHIP R	10	J 1/10W	
R257		RK73FB2A472J	CHIP R	4.7K	J 1/10W	
R258		RK73FB2A100J	CHIP R	10	J 1/10W	
R259		RK73FB2A823J	CHIP R	82K	J 1/10W	
R260		RK73FB2A563J	CHIP R	56K	J 1/10W	
R261		RK73FB2A152J	CHIP R	1.5K	J 1/10W	
R262		RK73FB2A102J	CHIP R	1.0K	J 1/10W	
R264		RK73FB2B2211	CHIP R	2.2K	J 1/8W	
R265-267		RK73FB2A472J	CHIP R	4.7K	J 1/10W	
R268-271		RK73FB2A222J	CHIP R	2.2K	J 1/10W	

Ref. No. 参照番号	New Parts 新	Parts No. 部品番号	Description 部品名／規格			Destination 仕向
R272		RK73FB2A223J	CHIP R	22K	J 1/10W	
R273		RK73FB2A222J	CHIP R	2.2K	J 1/10W	
R274,275		RK73FB2A472J	CHIP R	4.7K	J 1/10W	
R276,277		RK73FB2A222J	CHIP R	2.2K	J 1/10W	
R279		RK73FB2A222J	CHIP R	2.2K	J 1/10W	
R280,281		RK73FB2A103J	CHIP R	10K	J 1/10W	
R283		RK73FB2A473J	CHIP R	47K	J 1/10W	
R284		RK73FB2A223J	CHIP R	22K	J 1/10W	
VR1 ,2		R12-0678-05	TRIMMING POT.(10K)			
VR3		R12-6425-05	TRIMMING POT.(22K)			
VR4 -6		R12-6423-05	TRIMMING POT.(10K)			
VR7	*	R12-6414-05	TRIMMING POT.(330)			
VR8		R12-6427-05	TRIMMING POT.(47K)			
VR9		R12-6423-05	TRIMMING POT.(10K)			
S1		S40-1139-05	PUSH SWITCH			
BZ1		T95-0207-05	PIEZOELECTRIC VIBRATOR			
D1		AM01Z	DIODE			
D1		ERA15-01	DIODE			
D2 -4		UZMA6.2	ZENER DIODE			
D5 ,6		DAP202K	DIODE			
D7		DAN202K	DIODE			
D8		RM10ZLF	DIODE			
D9		UZL-11(M2)	ZENER DIODE			
D10		ERA85-009	DIODE			
D11		1SS181	DIODE			
D12		DAN202K	DIODE			
D13		DAP202K	DIODE			
D14		AM01Z	DIODE			
D14		ERA15-01	DIODE			
D15		UZL-7(L3)	ZENER DIODE			
D16	*	UZL-11(M3)	ZENER DIODE			
D17		1SS184	DIODE			
D18	*	UZL-6(LK1)	ZENER DIODE			
D19 ,20		DAN202K	DIODE			
D21		DAP202K	DIODE			
D22	*	UZL-11(L3)	ZENER DIODE			
D23		UZL-6(L3)	ZENER DIODE			
D24		DAN202K	DIODE			
D25		DA204K	DIODE			
D26		DAP202K	DIODE			
D28		DA204K	DIODE			
D29 ,30		DAN202K	DIODE			
D31		UZM6.2B(X)	ZENER DIODE			
D32		UZMA6.2	ZENER DIODE			
D33		UZM6.2B(X)	ZENER DIODE			
D34 -38		UZMA6.2	ZENER DIODE			
IC1	*	TDA8579T-T	ANALOGUE IC			
IC2		BA3906-V4	ANALOGUE IC			
IC3		KKZ01F	CUSTOM IC			
IC4	*	L9820D013TR	ANALOGUE IC			
IC6		S-80740AN-D4	IC			
IC7	*	M37610MDD100FP	MI-COM IC			

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(X14-5302-XX)
(X25-7312-72)

Ref. No. 参照番号	New Parts 新	Parts No. 部品番号	Description 部品名／規格	Destination 仕向
IC6		TEA6320T	ANALOGUE IC	
IC9		AN7190K	ANALOGUE IC	
IC10		SAA6579T	IC	
IC11		HA12173FP	ANALOGUE IC	
IC12		BA6238A	ANALOGUE IC	
IC13		TC4W66F	IC	
IC14		NJM4565M	IC(OP AMP X2)	
IC15		LM7001M	ANALOGUE IC	
IC16		KKC04	CUSTOM IC	
IC17		TC4S66F	IC(BILATERAL SWITCH)	
IC18		TA75S393F	IC	
Q1		DTC124EK	DIGITAL TRANSISTOR	
Q1		XDC124EK	DIGITAL TRANSISTOR	
Q2		DTC144EK	DIGITAL TRANSISTOR	
Q2		XDC144EK	DIGITAL TRANSISTOR	
Q3		DTC124EK	DIGITAL TRANSISTOR	
Q3		XDC124EK	DIGITAL TRANSISTOR	
Q4		DTA114EK	DIGITAL TRANSISTOR	
Q5		2SB1443	TRANSISTOR	
Q6		DTC114EK	DIGITAL TRANSISTOR	
Q7		DTA124EK	DIGITAL TRANSISTOR	
Q7		XDA124EK	DIGITAL TRANSISTOR	
Q8		2SB1184	TRANSISTOR	
Q9		2SC2412K	TRANSISTOR	
Q10		2SA1559(R)	TRANSISTOR	
Q11		2SD1760	TRANSISTOR	
Q12		2SB1326	TRANSISTOR	
Q13		DTC114EK	DIGITAL TRANSISTOR	
Q14		DTC124EK	DIGITAL TRANSISTOR	
Q14		XDC124EK	DIGITAL TRANSISTOR	
Q15 ,16		DTA124EK	DIGITAL TRANSISTOR	
Q15 ,16		XDA124EK	DIGITAL TRANSISTOR	
Q17		DTA144EK	DIGITAL TRANSISTOR	
Q18		2SB1326	TRANSISTOR	
Q19		2SC2412K	TRANSISTOR	
Q20 ,21		DTC124EK	DIGITAL TRANSISTOR	
Q20 ,21		XDC124EK	DIGITAL TRANSISTOR	
Q22		DTC144EK	DIGITAL TRANSISTOR	
Q22		XDC144EK	DIGITAL TRANSISTOR	
Q23 ,24		2SD2114K	TRANSISTOR	
Q25	*	2SC2411K(R)	TRANSISTOR	
Q26		2SA1037K	TRANSISTOR	
Q27 ,28		DTC144EK	DIGITAL TRANSISTOR	
Q27 ,28		XDC144EK	DIGITAL TRANSISTOR	
Q29		DTA144EK	DIGITAL TRANSISTOR	
Q30		DTC124EK	DIGITAL TRANSISTOR	
Q30		XDC124EK	DIGITAL TRANSISTOR	
Q31		DTA124EK	DIGITAL TRANSISTOR	
Q31		XDA124EK	DIGITAL TRANSISTOR	
Q32		2SB1565	TRANSISTOR	
Q33		2SC2412K	TRANSISTOR	
Q34		XDC124EK	DIGITAL TRANSISTOR	
Q35		2SC2412K	TRANSISTOR	
Q36		DTC114TK	DIGITAL TRANSISTOR	

Ref. No. 参照番号	New Parts 新	Parts No. 部品番号	Description 部品名／規格	Destination 仕向
Q37		DTA124EK	DIGITAL TRANSISTOR	
Q37		XDA124EK	DIGITAL TRANSISTOR	
Q38		DTC144EK	DIGITAL TRANSISTOR	
Q38		XDC144EK	DIGITAL TRANSISTOR	
Q39		2SA1037K	TRANSISTOR	
Q40 ,41		2SK536	FET	
Q42		2SC2412K	TRANSISTOR	
Q43		DTC144EK	DIGITAL TRANSISTOR	
Q43		XDC144EK	DIGITAL TRANSISTOR	
Q44		DTC124EK	DIGITAL TRANSISTOR	
Q44		XDC124EK	DIGITAL TRANSISTOR	
Q45		DTA124EK	DIGITAL TRANSISTOR	RL
Q45		XDA124EK	DIGITAL TRANSISTOR	RL
Q46		2SC2412K	TRANSISTOR	
Q47 ,48		2SC2413K	TRANSISTOR	
Q49		DTC114TK	DIGITAL TRANSISTOR	
Q50		DTA144EK	DIGITAL TRANSISTOR	
Q51 ,52		2SC2412K	TRANSISTOR	
Q53		DTC144WK	DIGITAL TRANSISTOR	
Q54		DTC144EK	DIGITAL TRANSISTOR	
Q54		XDC144EK	DIGITAL TRANSISTOR	
Q55		DTA144EK	DIGITAL TRANSISTOR	
Q56		DTC144EK	DIGITAL TRANSISTOR	
Q56		XDC144EK	DIGITAL TRANSISTOR	
Q57 ,58		DTC124EK	DIGITAL TRANSISTOR	
Q57 ,58		XDC124EK	DIGITAL TRANSISTOR	
Q60 ,61		DTC144EK	DIGITAL TRANSISTOR	
Q60 ,61		XDC144EK	DIGITAL TRANSISTOR	
A1	*	W02-1476-05	FM/AM FRONT-END	RL
A1	*	W02-1477-05	FM/AM FRONT-END	R

SWITCH UNIT (X25-7312-72)

330 1G	*	B11-0891-04	OPTICAL DIFFUSER	
331 1G	*	B19-1008-04	LIGHTING BOARD	
D1 -20		B30-1349-05	LED	
LCD1 1G	*	B38-0625-05	LIQUID CRYSTAL	
PL1		B30-1306-05	LAMP (5.5V .125A)	
PL2 ,3		B30-1305-05	LAMP (5.5V .125A)	
PL4		B30-1306-05	LAMP (5.5V .125A)	
C1		CK73FB1H223KTA	CHIP C 0.022UF K	
C2 ,3		CK73FB1H681K	CHIP C 680PF K	
C4		CK73FB1H223KTA	CHIP C 0.022UF K	
C5		C92-0509-05	CHIP-TAN 10UF 6.3WV	
C6		CK73FB1H223KTA	CHIP C 0.022UF K	
333 1H	*	E29-1466-03	CONDUCTIVE RUBBER	
334 1G	*	E29-1467-04	CONDUCTIVE RUBBER	
335 1G	*	E29-1468-04	CONDUCTIVE RUBBER	
CN1	*	E40-9395-05	FLAT CABLE CONNCTOR	
R1		RK73FB2A513J	CHIP R 51K J 1/10W	
R2 ,3		RK73FB2A102J	CHIP R 1.0K J 1/10W	
R4		RK73FB2A471J	CHIP R 470 J 1/10W	
R5		RK73FB2A331J	CHIP R 330 J 1/10W	
R6 -17		RK73FB2A102J	CHIP R 1.0K J 1/10W	
R18		RK73FB2A513J	CHIP R 51K J 1/10W	

E: Europe W: Without Europe P: Canada X: Australia
K: U.S.A and Canada M: Without Europe, U.S.A. and Canada

R : KRC-956R
RL : KRC-956RL

⚠ indicates safety critical components.

PARTS LIST

* New Parts
Parts without Parts No. are not supplied.
Les articles non mentionnes dans le Parts No. ne sont pas fournis.
Teile ohne Parts No. werden nicht geliefert.

(X25-7312-72)
(D40-1065-05)

Ref. No. 参照番号	New Parts 新	Parts No. 部品番号	Description 部品名/規格			Destination 仕向
R19		RK73FB2A220J	CHIP R	22	J 1/10W	
R20		RK73FB2A102J	CHIP R	1.0K	J 1/10W	
R21 -25		RK73FB2A331J	CHIP R	330	J 1/10W	
R26		RK73FB2A102J	CHIP R	1.0K	J 1/10W	
R29 -31		RK73FB2A102J	CHIP R	1.0K	J 1/10W	
R32		RK73FB2A472J	CHIP R	4.7K	J 1/10W	
D21		UZM5.6B(Y)	ZENER DIODE			
IC1		LC75852E	MOS-IC			
IC2	*	LC75821E	MOS-IC			
IC3		RS-31N	ANALOGUE IC			
Q1		DTA144EK	DIGITAL TRANSISTOR			
Q2 ,3		DTC144EK	DIGITAL TRANSISTOR			
Q2 ,3		XDC144EK	DIGITAL TRANSISTOR			
Q4		DTA114EK	DIGITAL TRANSISTOR			
Q5		DTA144EK	DIGITAL TRANSISTOR			
CASSETTE MECHANISM ASSY (D40-1065-05)						
2 1A		A11-0891-08	SUB CHASSIS ASSY			
3 2B		A11-0892-08	SUB CHASSIS ASSY			
4 1A		D10-2915-08	ARM ASSY (ACTION PLATE ASSY)			
5 1B	*	D10-3026-08	ARM ASSY (LOUD ARM ASSY)			
6 3A		D10-2917-08	ARM ASSY (FR ARM ASSY)			
7 1A	*	J19-4605-08	HOLDER ASSY			
10 1B	*	D13-1211-08	GEAR ASSY (LOUD GEAR ASSY)			
11 3A		D13-1166-08	GEAR ASSY (FR GEAR ASSY)			
12 2A		D13-1167-08	GEAR ASSY (REEL GEAR ASSY)			
16 1A		D10-2918-08	ARM ASSY (F)			
17 1A		D10-2919-08	ARM ASSY (R)			
18 3A		D01-0606-08	FLYWHEEL ASSY (FLYWHEEL)			
19 3A		D01-0607-08	FLYWHEEL ASSY (FLYWHEEL)			
22 3B		D10-2920-08	LEVER (FF REW PLATE)			
23 2B		D10-2921-08	LEVER ASSY (PROGRAM PLATE)			
24 1A		D10-2922-08	LEVER			
25 2B		J19-4557-08	BRACKET (SUB MOTOR PLATE)			
28 1B	*	D10-3027-08	ARM ASSY			
30 2A		B09-0520-08	CAP (REEL CAP)			
31 1B	*	D10-2923-18	ARM (ACTION ARM)			
32 2B		D13-1168-08	GEAR (SUB MOTOR GEAR)			
33 1B		D13-1169-08	GEAR (IDOL GEAR2)			
34 1B		D13-1170-08	GEAR (IDOL GEAR1)			
35 1B		D13-1171-08	GEAR (IDOL GEAR3)			
36 1B		D13-1172-08	GEAR (MODE GEAR1)			
37 2B		D13-1173-08	GEAR (MODE GEAR2)			
38 3A		D13-1174-08	GEAR (TAKE UP GEAR)			
39 1A		D15-0910-08	PULLEY (MAIN MOTOR PULLEY)			
40 3B		D15-0911-08	PULLEY (IDOL PULLEY)			
42 1A	*	J90-0744-18	GUIDE (PACK SLIDER)			
48 2B		D14-0648-08	ROLLER (PROGRAM PLATE ROLLER)			
49 2A		D14-0649-08	ROLLER (ROLLER2)			
50 3B		D14-0650-08	ROLLER (ROLLER1)			
52 2A	*	D10-3028-08	ARM			
53 2A		G01-2706-08	TORSION SPRING			
54 3A		G09-2009-08	FORMED WIRE			
55 2A		G01-2699-08	COMPRESSION SPRING (REEL CAP)			
57 1B	*	G01-2732-08	TENSION SPRING (LOUDING ARM)			
58 3A		G01-2701-08	TENSION SPRING (TAKE UP)			
60 1B		G01-2702-08	TORSION SPRING (ACTION PLATE)			
61 2B		G01-2703-08	TORSION SPRING (MODE PLATE)			
65 1A		G09-2010-08	FORMED WIRE (PINCH ROLLER)			
66 3A		D16-0607-08	BELT			
70 3A	*	J26-4009-08	PRINT BOARD ASSY			
85 3A		N38-2022-45	MACHINE SCREW			
86 1A		N38-2030-46	MACHINE SCREW			
87 1A		N09-4114-08	SCREW			
88 2B		N38-2020-45	MACHINE SCREW			
89 2B		N35-2003-46	BINDING HEAD MACHINE SCREW			
90 2B		N86-2004-46	BINDING HEAD TAPTITE SCREW			
92 1A		N09-4115-08	SCREW			
93 2B		N35-2005-46	BINDING HEAD MACHINE SCREW			
96 3B		N38-2630-45	MACHINE SCREW			
100 2A		N19-2051-08	FLAT WASHER			
101 2A,1B		N19-2052-08	FLAT WASHER			
102 2A,3A		N19-2053-08	FLAT WASHER			
103 2A		N19-2054-08	FLAT WASHER			
104 1A,2B		N19-2055-08	FLAT WASHER			
107 2A,3A		N19-2056-08	FLAT WASHER			
111 1B		N24-3015-41	RETAINING RING			
112 2A		N24-3030-41	RETAINING RING			
113 2B		J26-4010-08	PRINT BOARD ASSY			
114 1A		G02-1185-08	PLATE SPRING			
115 1A		D10-2924-08	ARM			
117 1A		D10-2925-08	LEVER			
118 1A		D10-2926-08	LEVER			
119 1A		G01-2704-08	TORSION SPRING			
126 2A		N38-1770-45	SCREW			
137 2B		E40-9343-08	PIN ASSY			
138 2A		G11-1648-08	CUSHION			
139 2A		D21-2193-08	SHAFT ASSY (CAPSTAN)			
HD1 1A		T31-0215-08	PLAYBACK HEAD			
M1 2A		T43-0102-08	DC MOTOR (MAIN MOTOR)			
M2 2B		T43-0103-08	DC MOTOR (SUB MOTOR)			
PH1 ,2 3A		T95-0215-08	OPTO ISOLATOR			
PH3 2B		T95-0213-08	PHOTO COUPLER			
S1 2B		S74-0805-08	PUSH SWITCH			
S2 ,3 3A		S74-0806-08	LEAF SWITCH			

E: Europe W: Without Europe P: Canada X: Australia
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⚠ indicates safety critical components.

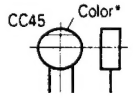
KRC-956R/RL

PARTS LIST

CAPACITORS

CC 45 TH 1H 220 J
1 2 3 4 5 6

1 = Type ... ceramic, electrolytic, etc.
2 = Shape ... round, square, ect.
3 = Temp. coefficient
4 = Voltage rating
5 = Value
6 = Tolerance



• Capacitor value

010 = 1pF
100 = 10pF
101 = 100pF
102 = 1000pF = 0.001μF
103 = 0.01μF

2 2 0 = 22pF
2nd number
1st number
Multiplier

• Temperature coefficient

1st Word	C	L	P	R	S	T	U
Color*	Black	Red	Orange	Yellow	Green	Blue	Violet
ppm/°C	0	-80	-150	-220	-330	-470	-750

2nd Word	G	H	J	K	L
ppm/°C	±30	±60	±120	±250	±500

Example : CC45TH = -470 ± 60ppm/°C

• Tolerance (More than 10pF)

Code	C	D	G	J	K	M	X	Z	P	No code
(%)	±0.25	±0.5	±2	±5	±10	±20	+40 -20	+80 -20	+100 -0	More than 10μF -10 ~ +50 Less than 4.7μF -10 ~ +75

(Less than 10pF)

Code	B	C	D	F	G
(pF)	±0.1	±0.25	±0.5	±1	±2

• Voltage rating

1st word \ 2nd word	A	B	C	D	E	F	G	H	J	K	V
0	1.0	1.25	1.6	2.0	2.5	3.15	4.0	5.0	6.3	8.0	-
1	10	12.5	16	20	25	31.5	40	50	63	80	35
2	100	125	160	200	250	315	400	500	630	800	-
3	1000	1250	1600	2000	2500	3150	4000	5000	6300	8000	-

• Chip capacitors

(EX) C C 7 3 F S L 1 H 0 0 0 J
1 2 3 4 5 6 7
(Chip) (CH, RH, UJ, SL)

(EX) C K 7 3 F F 1 H 0 0 0 Z
1 2 3 4 5 6 7
(Chip) (B, F)

Refer to the table above.
1 = Type
2 = Shape
3 = Dimension
4 = Temp. coefficient
5 = Voltage rating
6 = Value
7 = Tolerance

Dimension (Chip capacitors)

Dimension code	L	W	T
Empty	5.6 ± 0.5	5.0 ± 0.5	Less than 2.0
A	4.5 ± 0.5	3.2 ± 0.4	Less than 2.0
B	4.5 ± 0.5	2.0 ± 0.3	Less than 2.0
C	4.5 ± 0.5	1.25 ± 0.2	Less than 1.25
D	3.2 ± 0.4	2.5 ± 0.3	Less than 1.5
E	3.2 ± 0.2	1.6 ± 0.2	Less than 1.25
F	2.0 ± 0.3	1.25 ± 0.2	Less than 1.25
G	1.6 ± 0.2	0.8 ± 0.2	Less than 1.0

RESISTORS

• Chip resistor (Carbon)

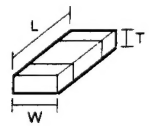
(EX) R K 7 3 E B 2 B 0 0 0 J
1 2 3 4 5 6 7
(Chip) (B,F)

• Carbon resistor (Normal type)

(EX) R D 1 4 B B 2 C 0 0 0 J
1 2 3 4 5 6 7

1 = Type
2 = Shape
3 = Dimension
4 = Temp. coefficient
5 = Rating wattage
6 = Value
7 = Tolerance

Dimension



Dimension (Chip resistor)

Dimension code	L	W	T
E	3.2 ± 0.2	1.6 ± 0.2	1.0
F	2.0 ± 0.3	1.25 ± 0.2	1.0
G	1.6±0.2	0.8±0.2	0.5±0.1

Rating wattage

Code	Wattage	Code	Wattage	Code	Wattage
1J	1/16W	2C	1/6W	3A	1W
2A	1/10W	2E	1/4W	3D	2W
2B	1/8W	2H	1/2W		

KRC-956R/RL

SPECIFICATIONS

Specifications subject to change without notice.

FM tuner section

Frequency range	87.5 MHz – 108.0 MHz
Usable sensitivity	0.7 μV/75 Ω
Quieting sensitivity (S/N = 46 dB)	1.6 μV/75 Ω
Frequency response (±3.0 dB)	30 Hz – 15 kHz
Signal to Noise ratio (IEC-A)	68 dB
Selectivity	≧80 dB (±400 kHz) 75 dB (±200 kHz)
Stereo separation (1 kHz)	35 dB
19 kHz carrier leakage	65 dB

MW tuner section

Frequency range	531 kHz – 1611 kHz
Usable sensitivity	30 μV

LW tuner section (KRC-956RL/856RL only)

Frequency range	153 kHz – 281 kHz
Usable sensitivity	60 μV

Cassette deck section

Tape speed	4.76 cm/sec.
Wow & Flutter (WRMS)	0.09 %
Fast winding time (C-60)	100 sec.
Frequency response (120 μs)	30 Hz – 18 kHz (±3 dB)
(70 μs)	30 Hz – 20 kHz (±3 dB)
Stereo separation (1 kHz)	40 dB
Signal to Noise ratio (Dolby B/C NR OFF)	55 dB
(Dolby B NR ON)	65 dB
(Dolby C NR ON:KRC-956R/RL only)	72 dB

Audio section

Maximum output power	25 W × 4
Output power (10% THD, 1 KHz, 4 Ω)	20 W × 4
(1% THD, 1KHz, 4 Ω)	15 W × 4
Tone action	Bass: 100 Hz ±10 dB Treble: 10 kHz ±10 dB
Preout level / Impedance	1500 mV (Max.) / 180 Ω

General

Operating voltage	14.4 V (11 – 16 V allowable)
Current consumption	6.9 A at Rated power
Dimensions (W × H × D)	188 × 58 × 170 mm
Installation size (W × H × D)	182 × 53 × 162 mm
Weight	2.15 kg

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